

Fig.1

Fig. 2

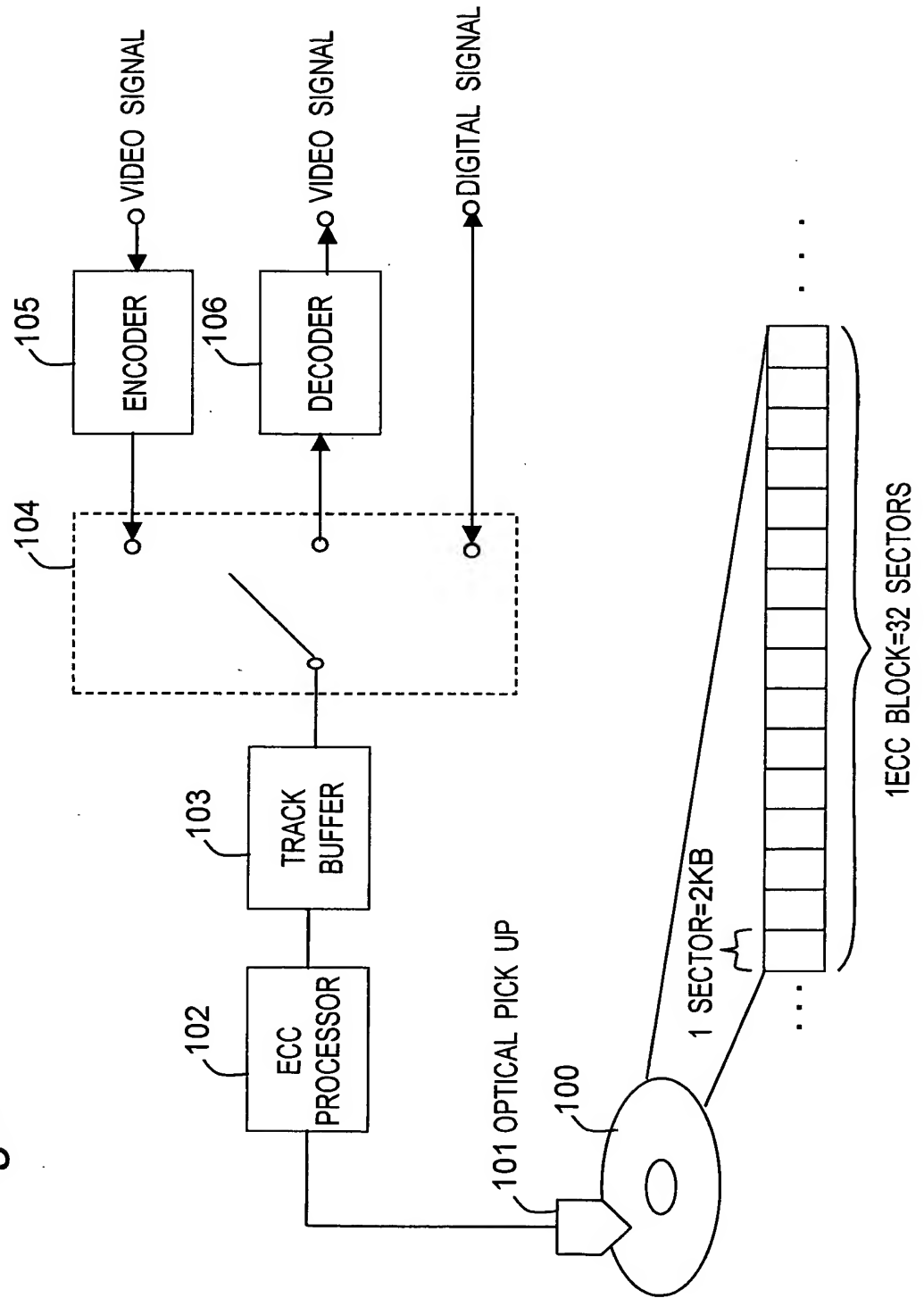


Fig.3A

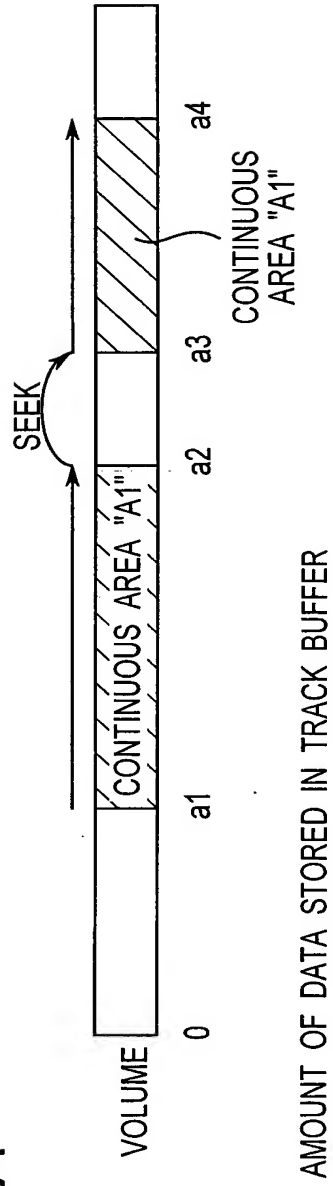
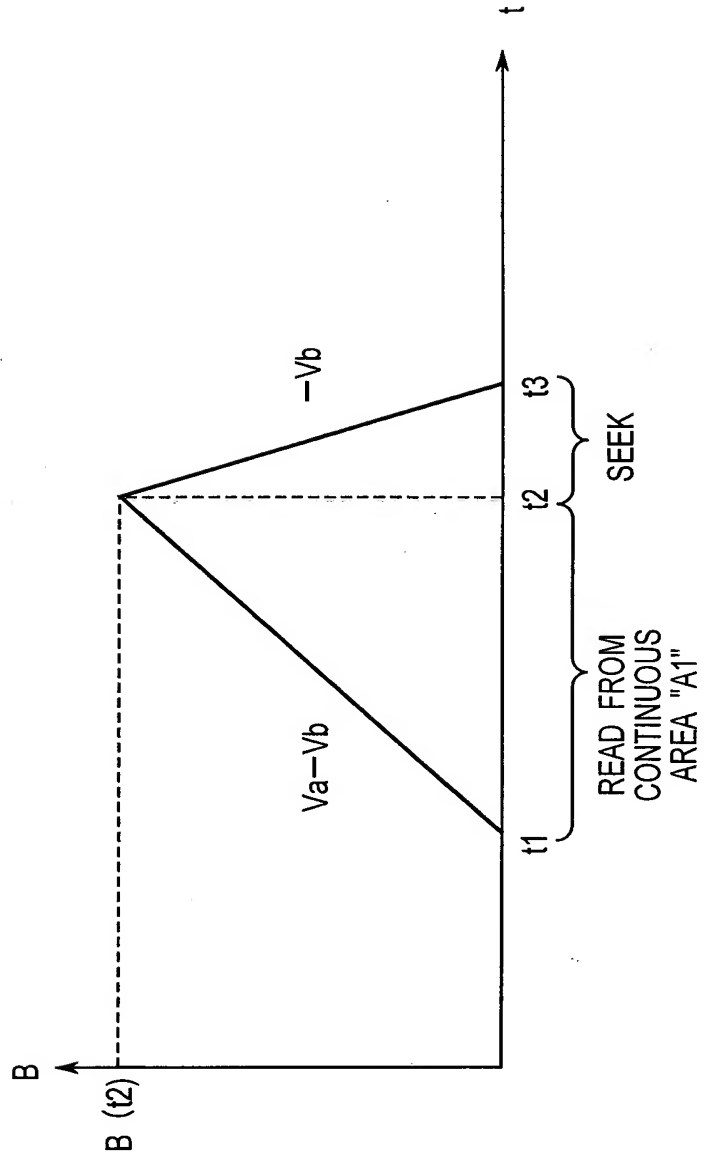


Fig.3B



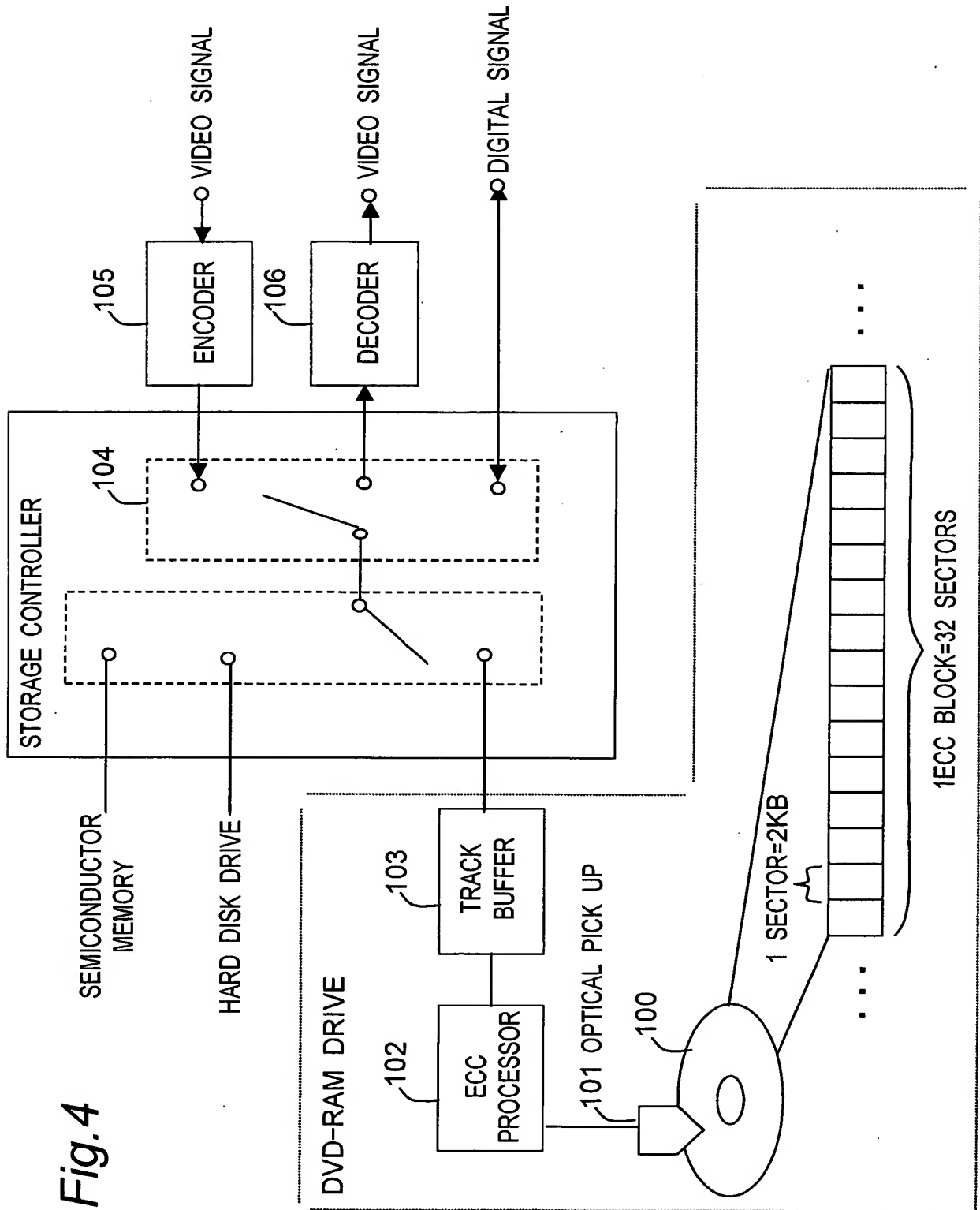


Fig. 5A

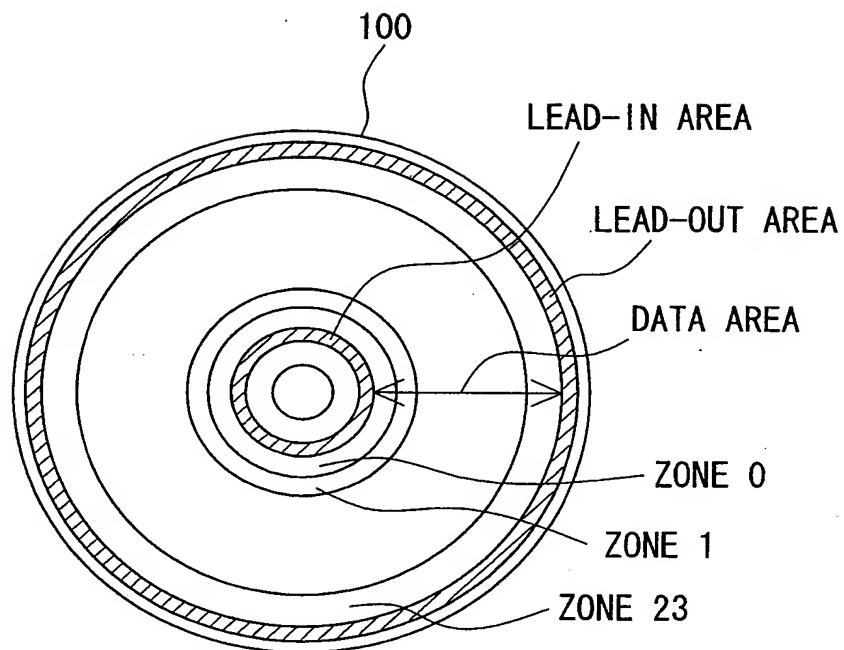


Fig. 5B

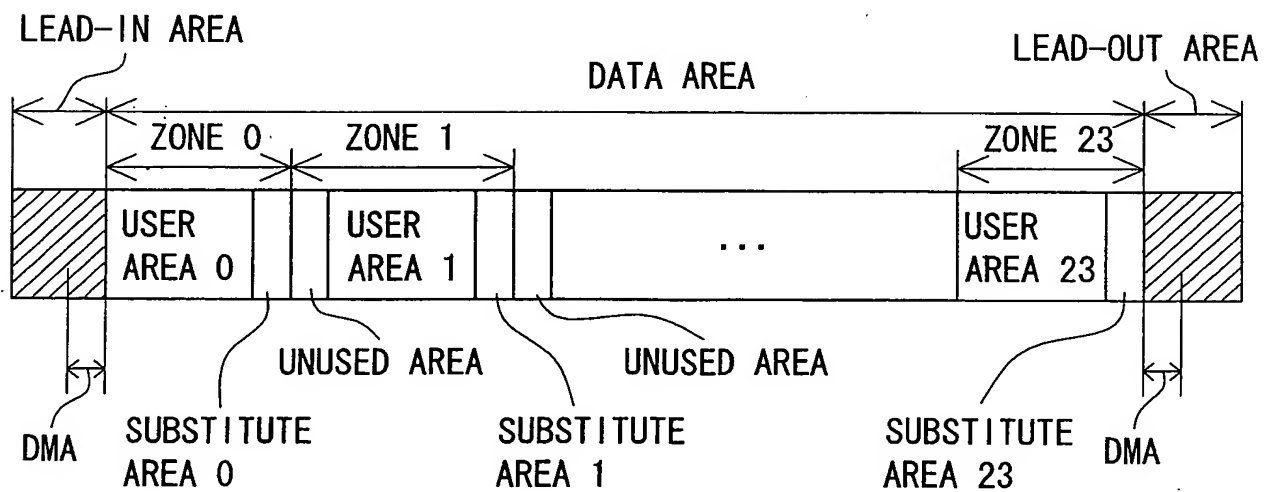


Fig. 6A

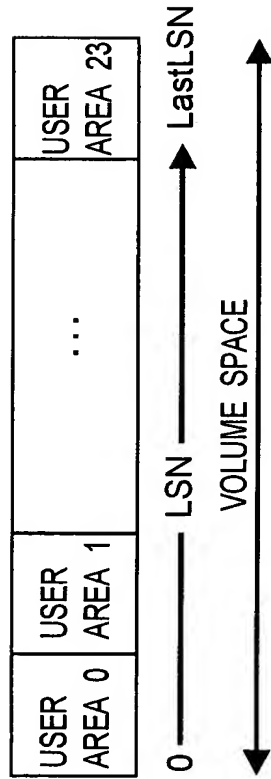


Fig. 6B

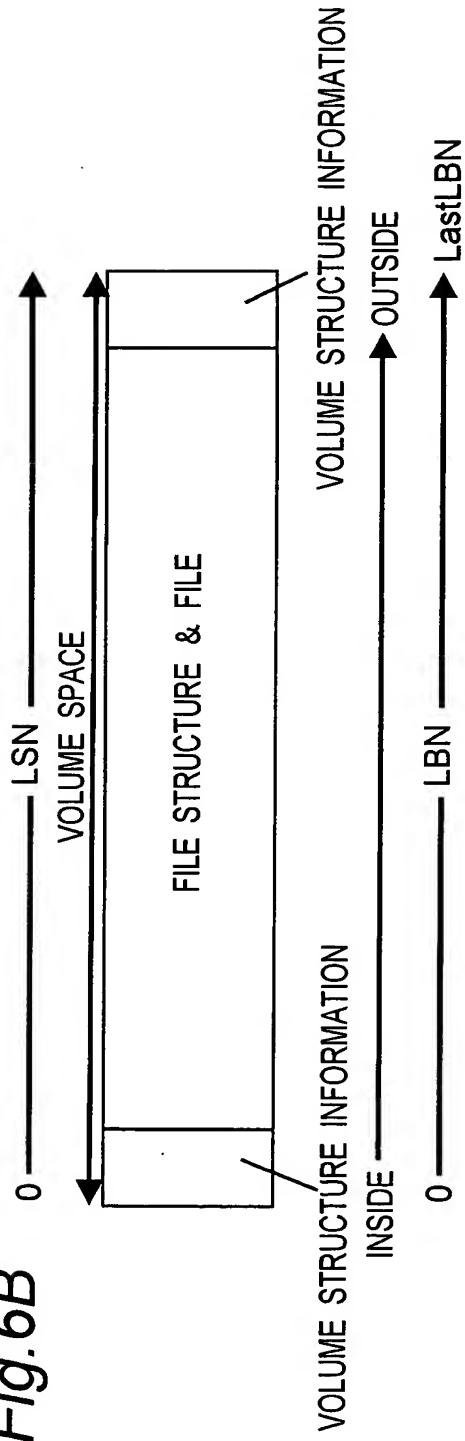


Fig. 7

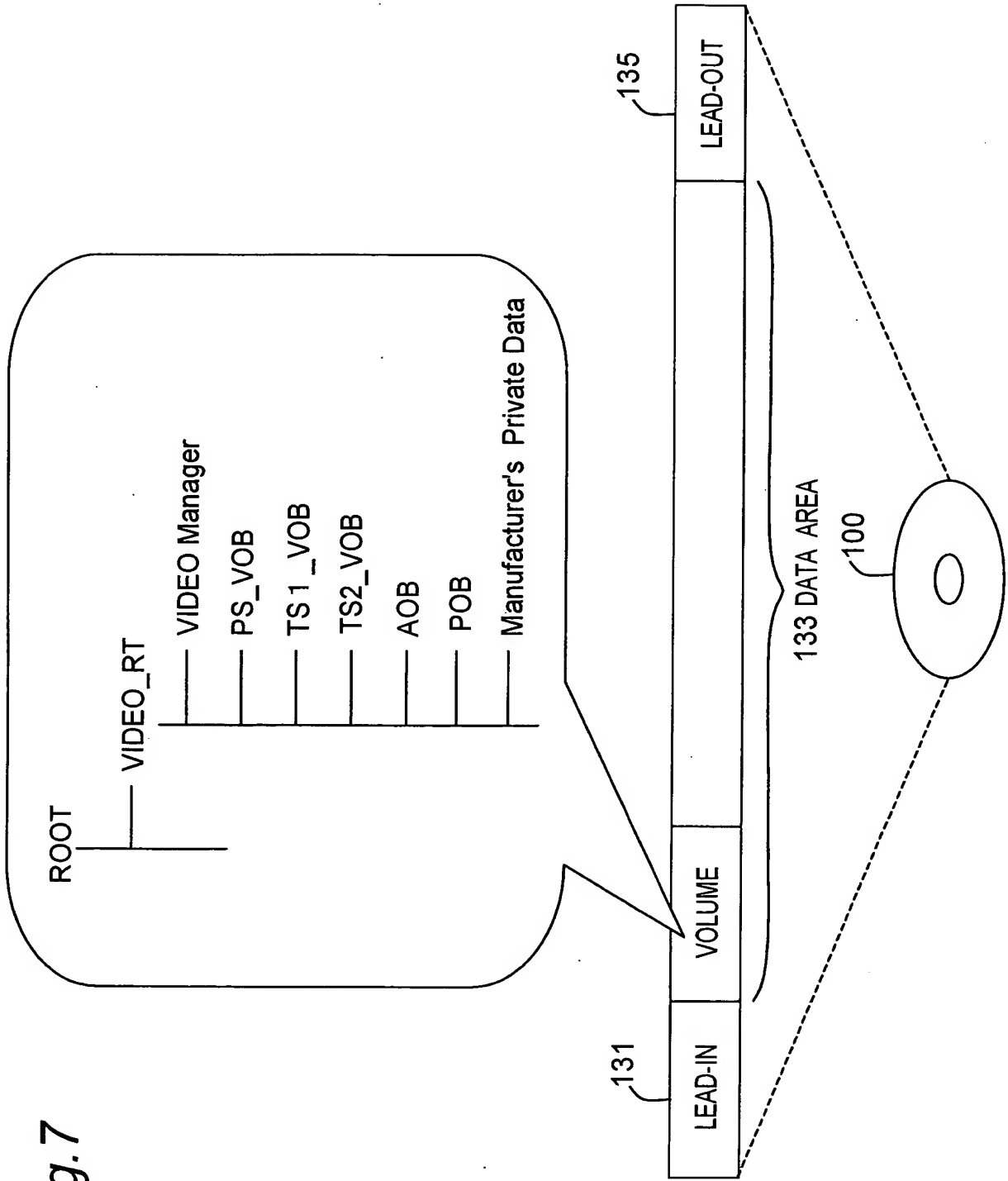
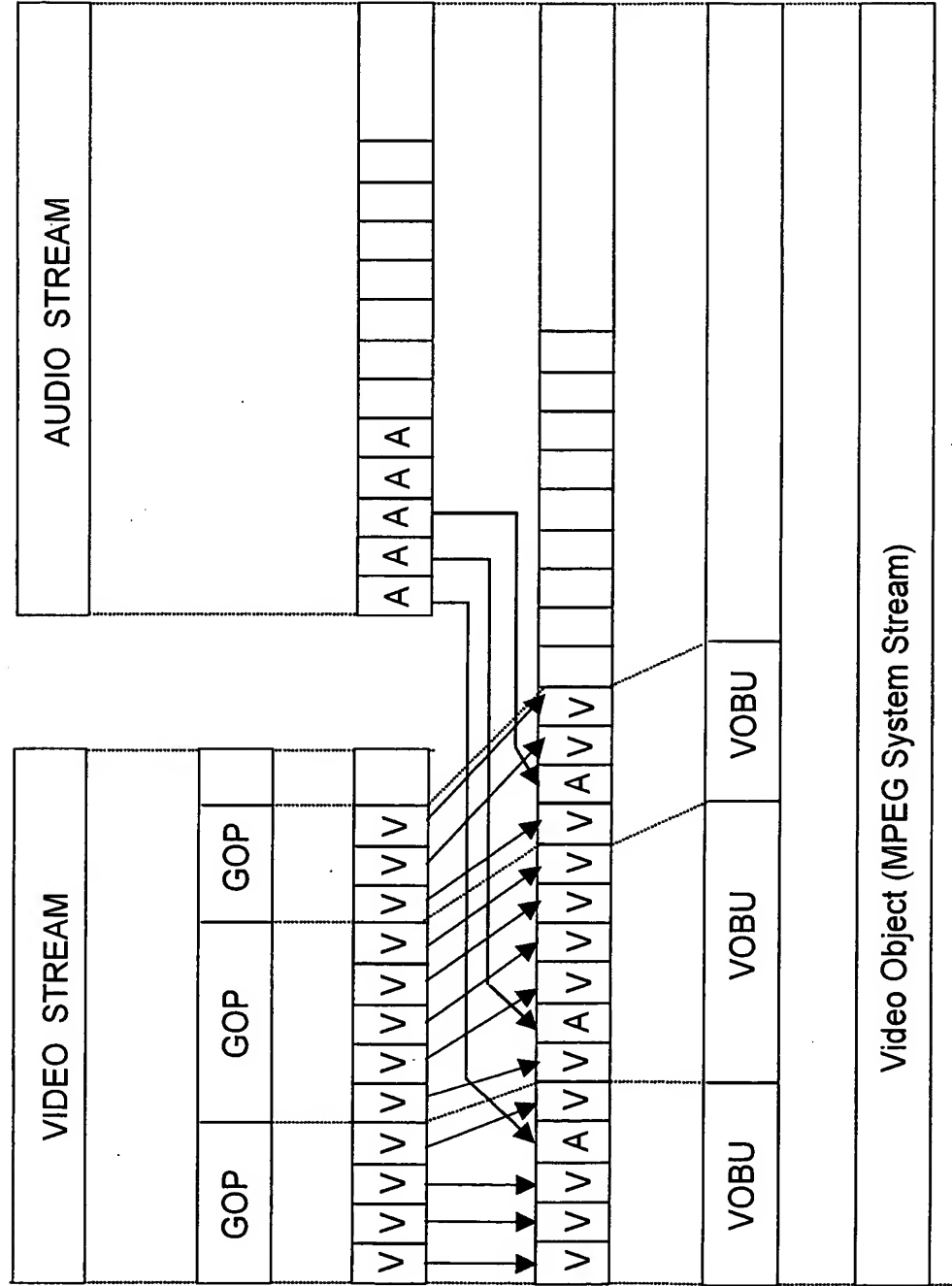
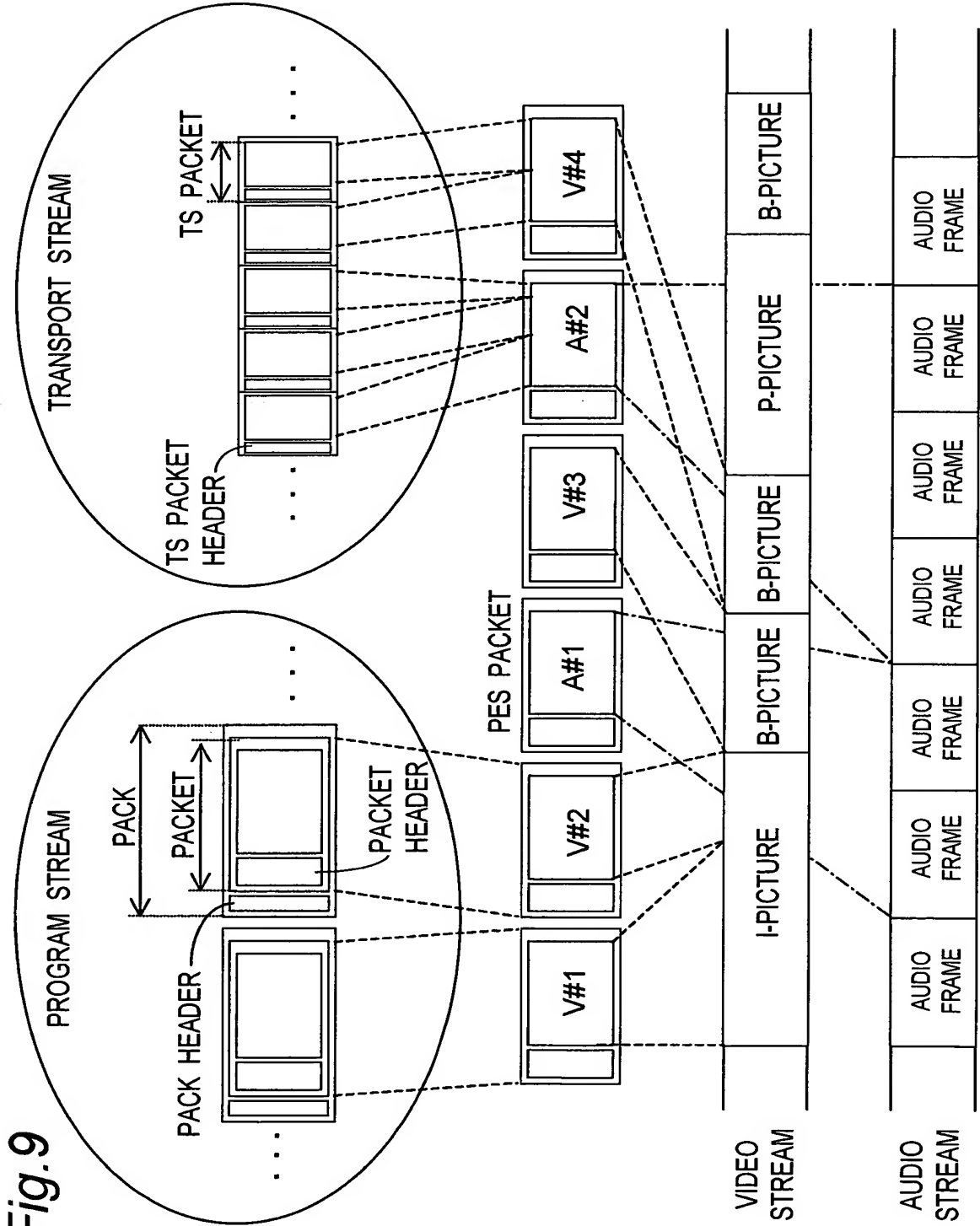
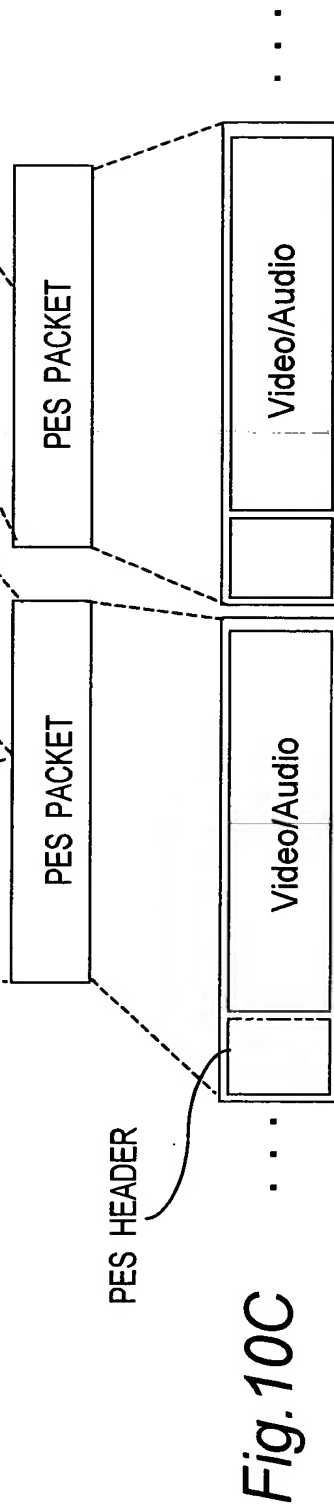
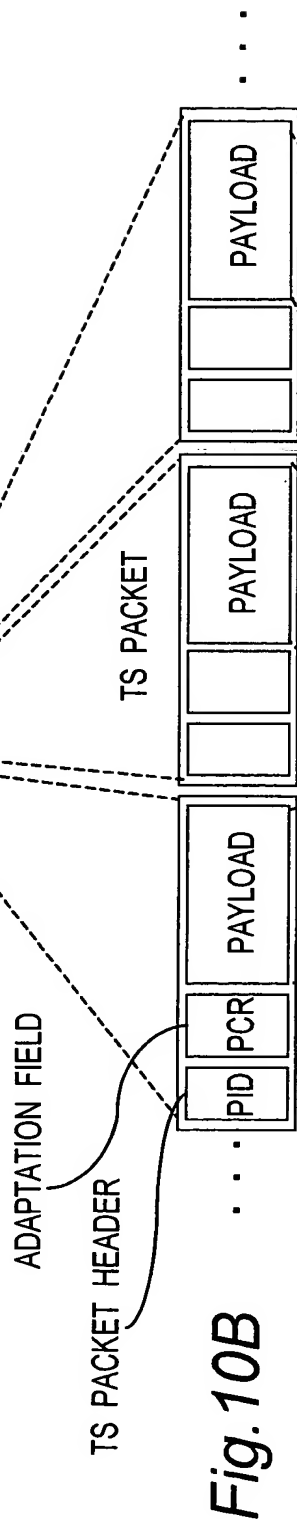
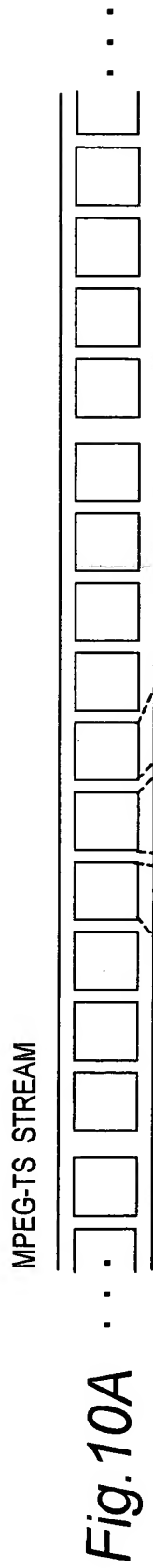


Fig.8







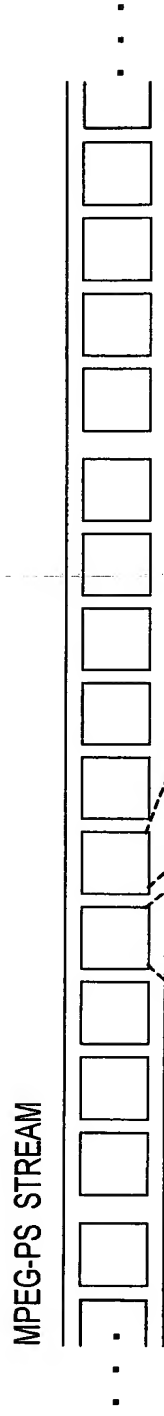


Fig. 11A

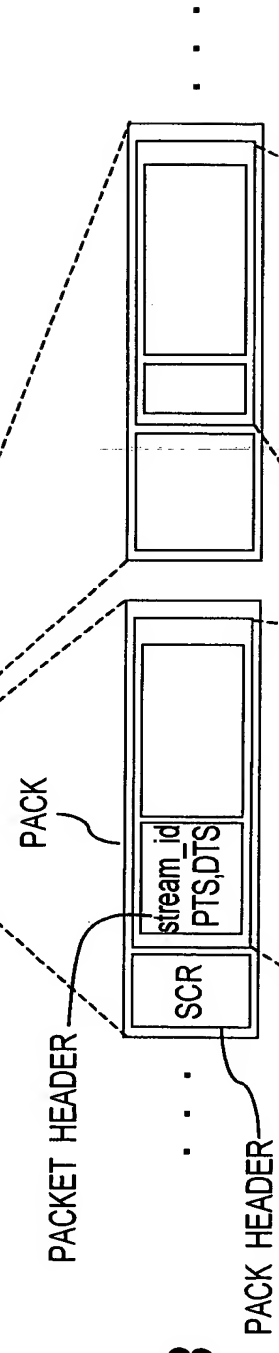


Fig. 11B

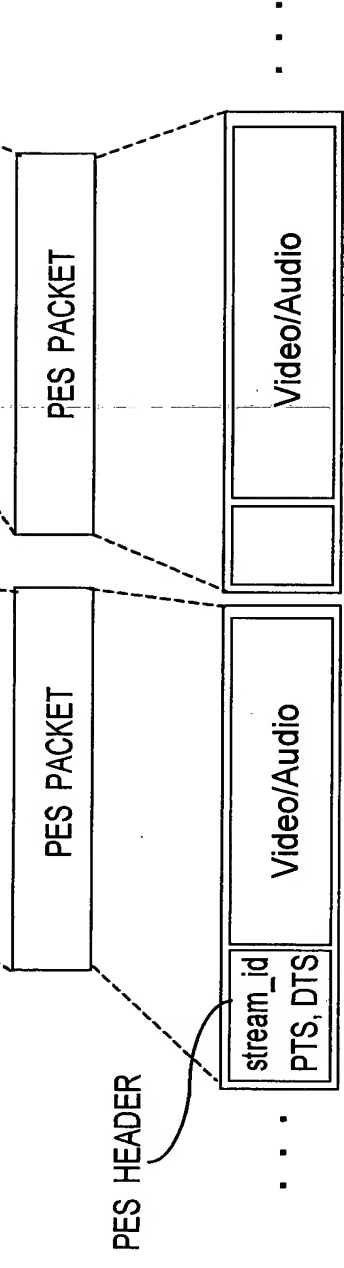
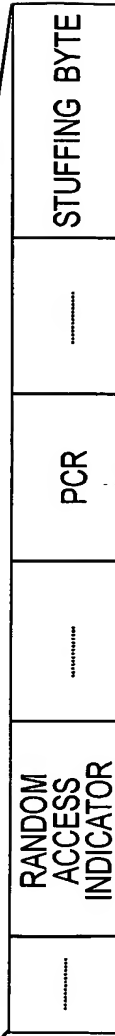
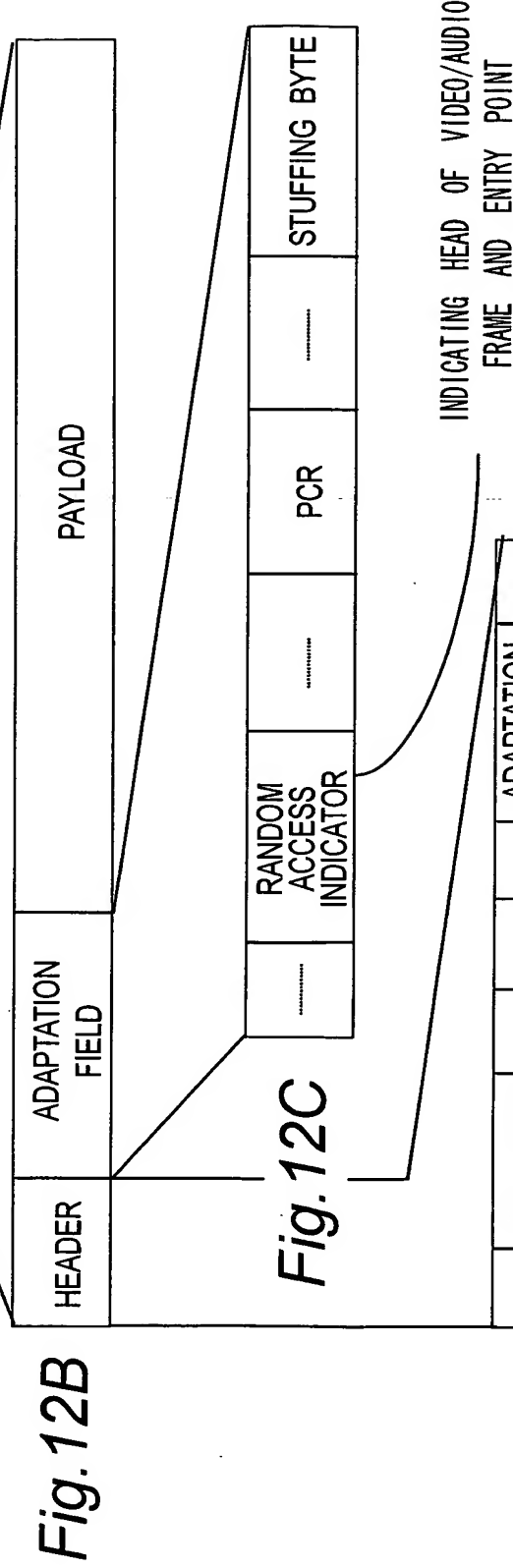
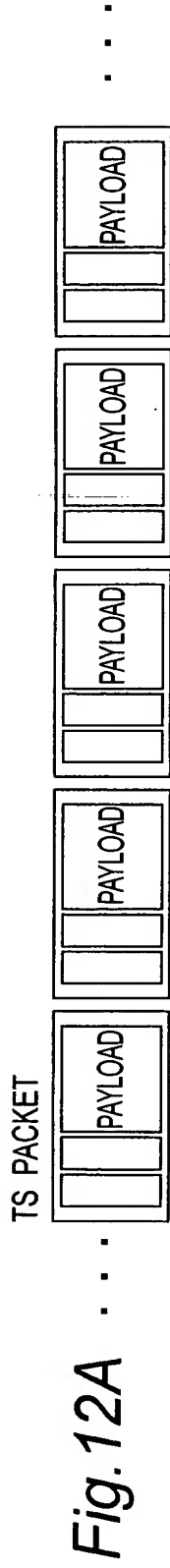
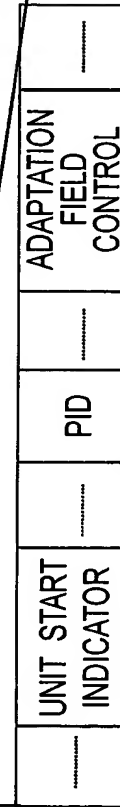


Fig. 11C



INDICATING HEAD OF VIDEO/AUDIO
FRAME AND ENTRY POINT



INDICATING TYPE & ATTRIBUTE OF STREAM

INDICATING START OF NEW PES PACKET

Fig.13A

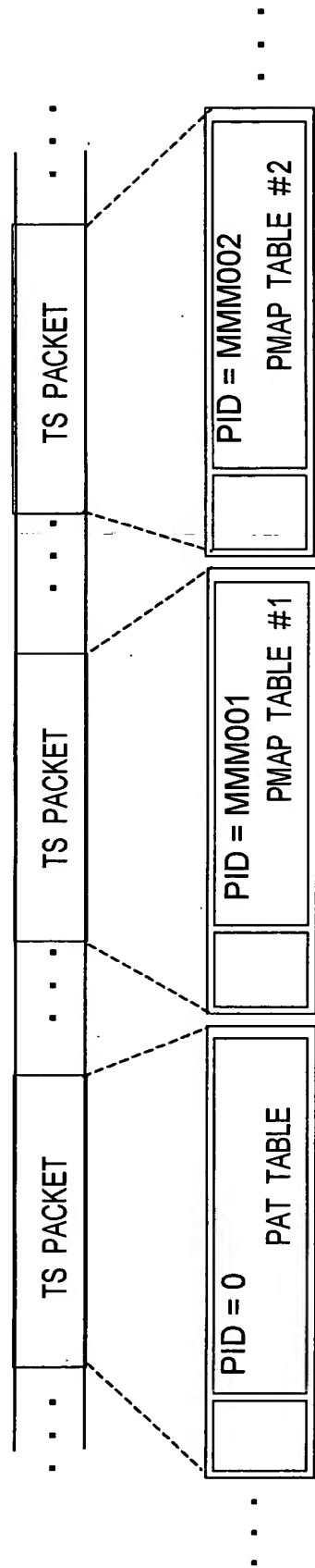


Fig.13B

PAT TABLE

PROGRAM 1	PMAP TABLE #1
PROGRAM 2	PMAP TABLE #2
...	...
PROGRAM n	PMAP TABLE #n

Fig.13C1

PMAP TABLE #1

Video	PID=w001
Audio	PID=aa002

Fig.13C2

PMAP TABLE #2

Video	PID=v002
Audio	PID=aa001

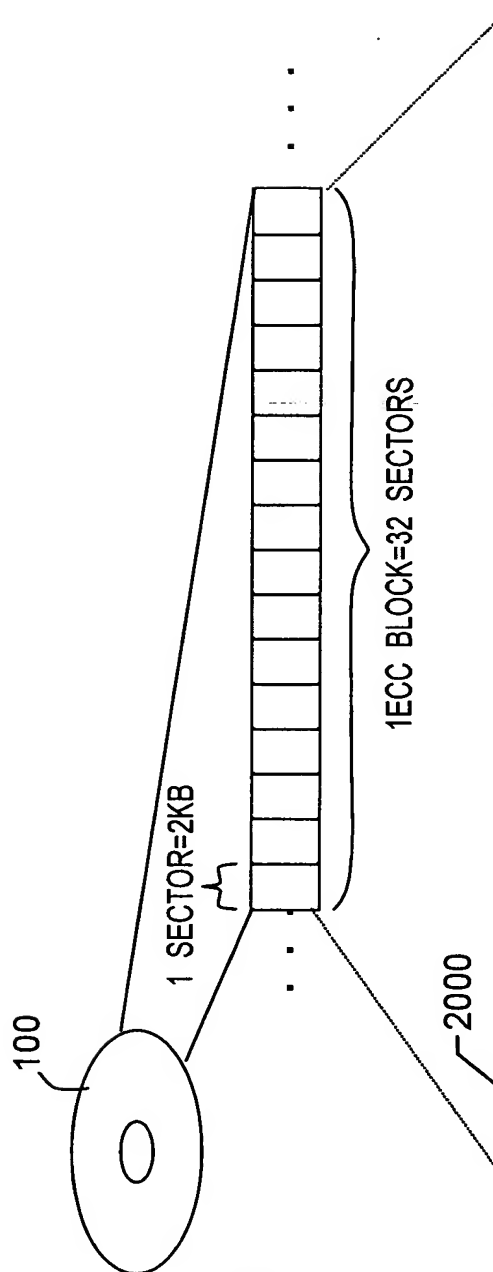


Fig. 14A

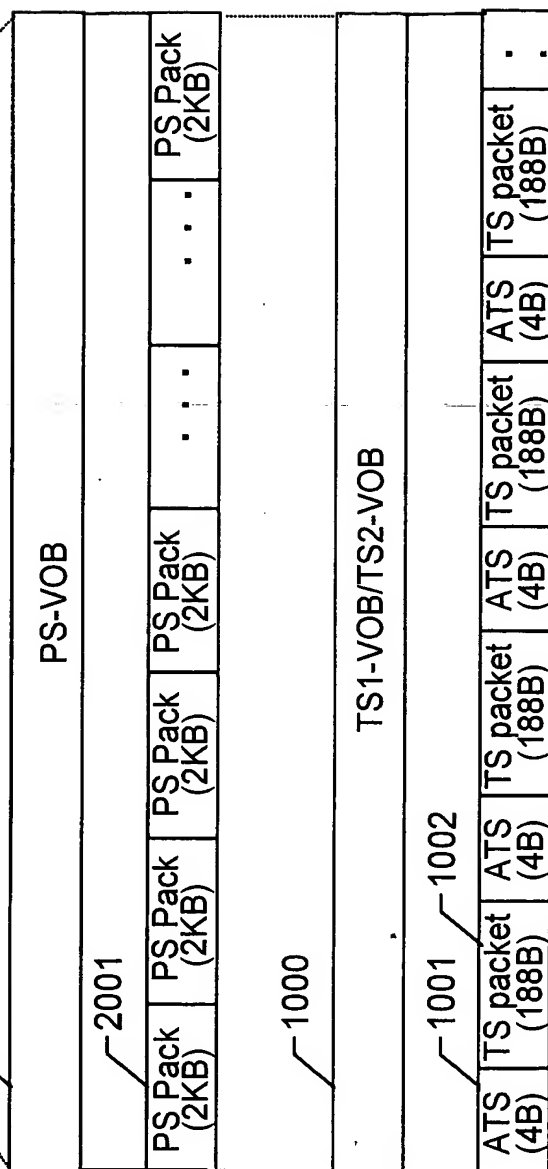


Fig. 14B

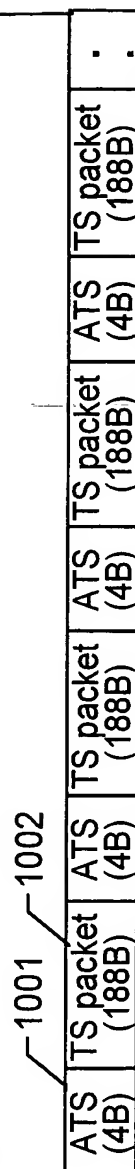


Fig. 14C

Fig. 15A

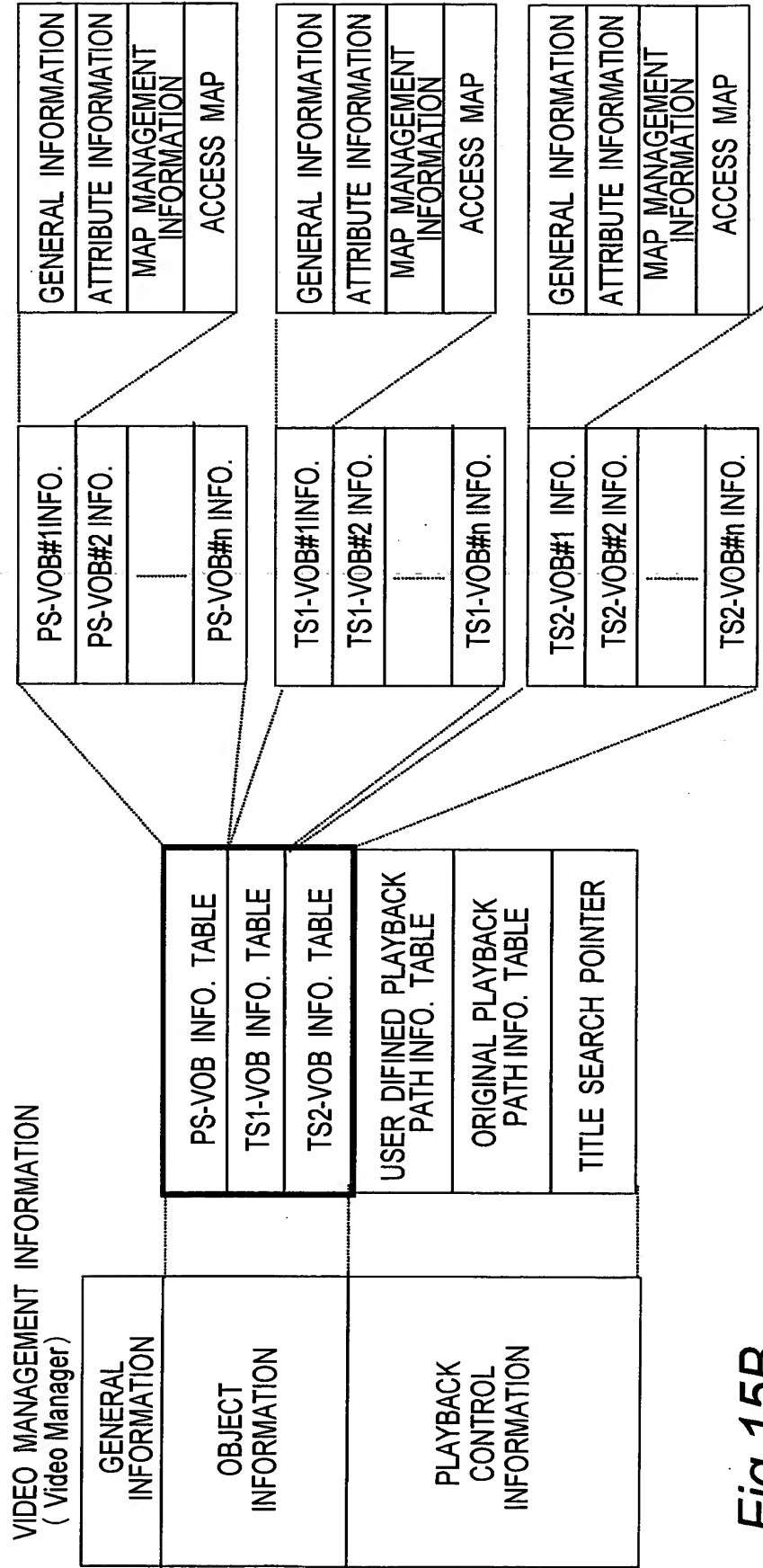
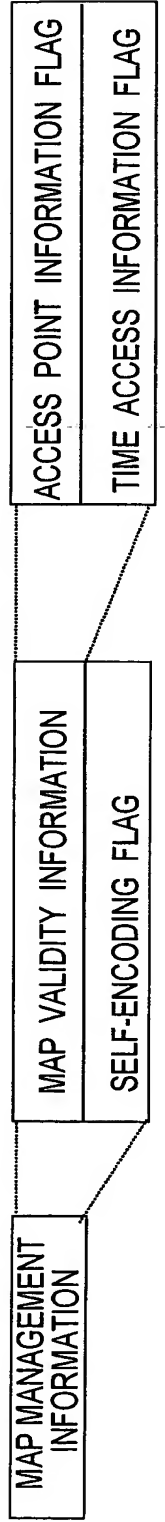


Fig. 15B



VIDEO MANAGEMENT INFORMATION
(Video Manager)

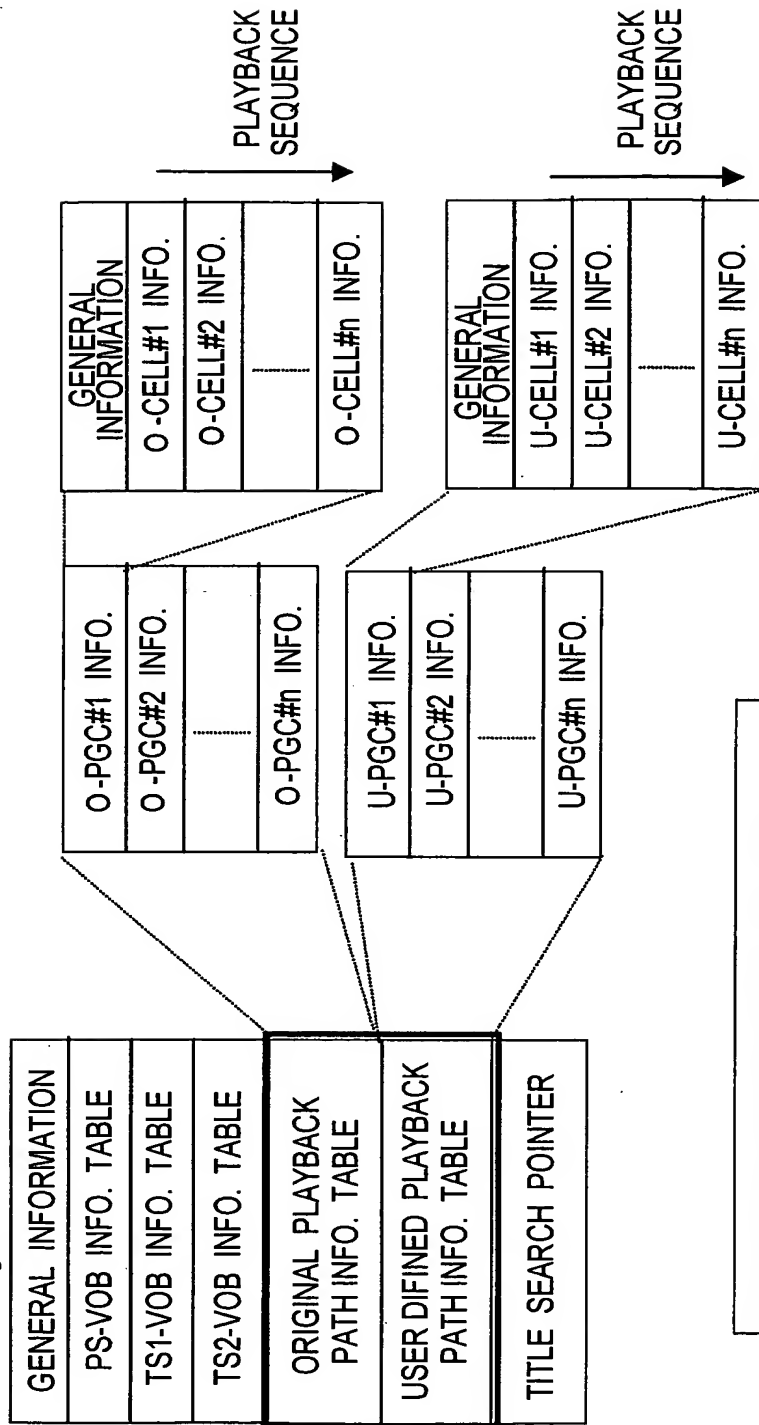


Fig. 16A

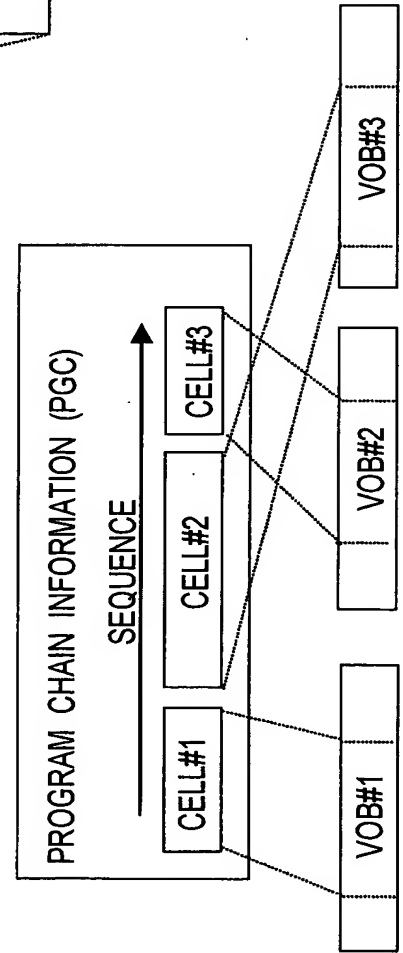


Fig. 16B

Fig. 17

VIDEO MANAGEMENT INFORMATION (VIDEO MANAGER)

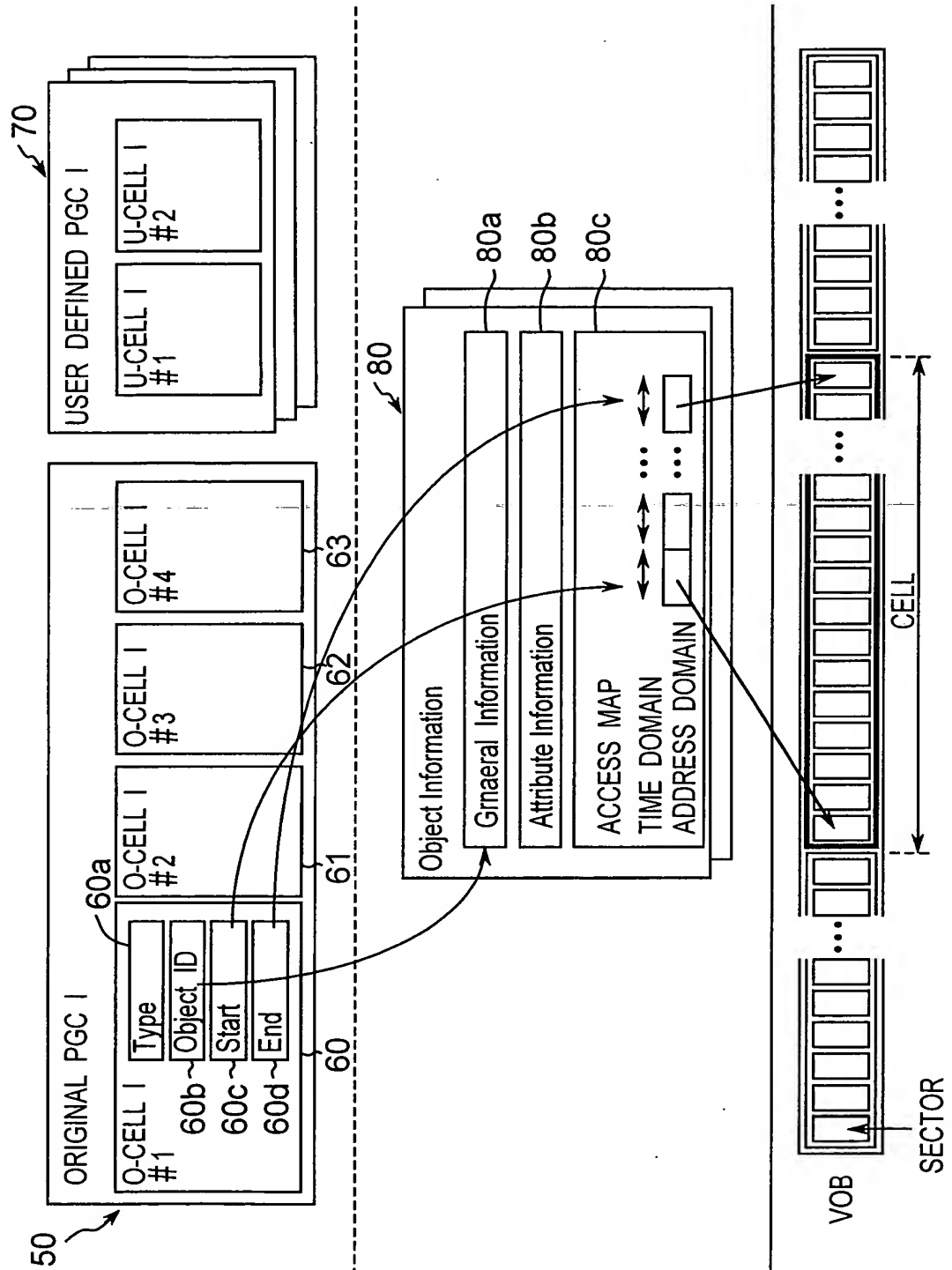


Fig. 18

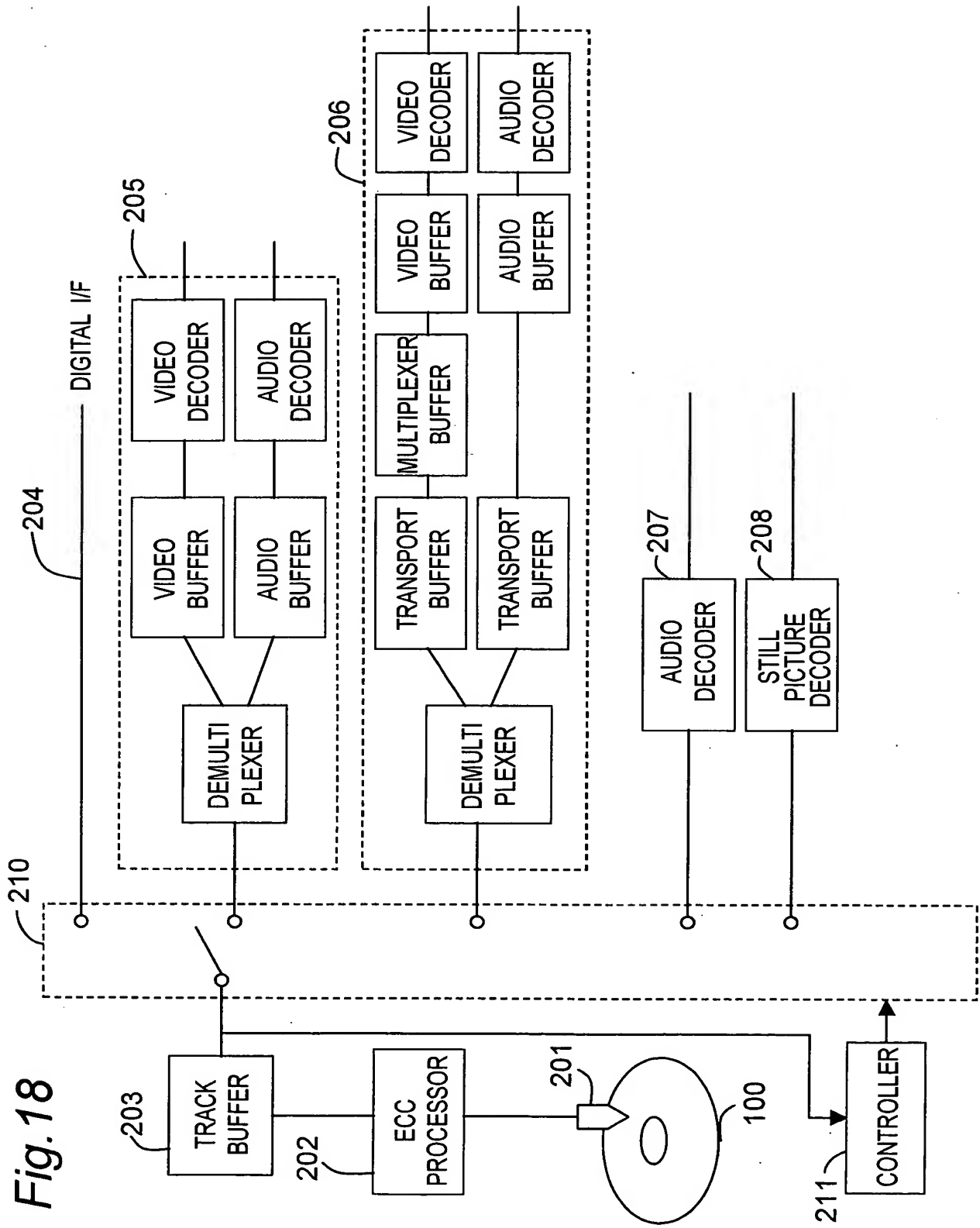
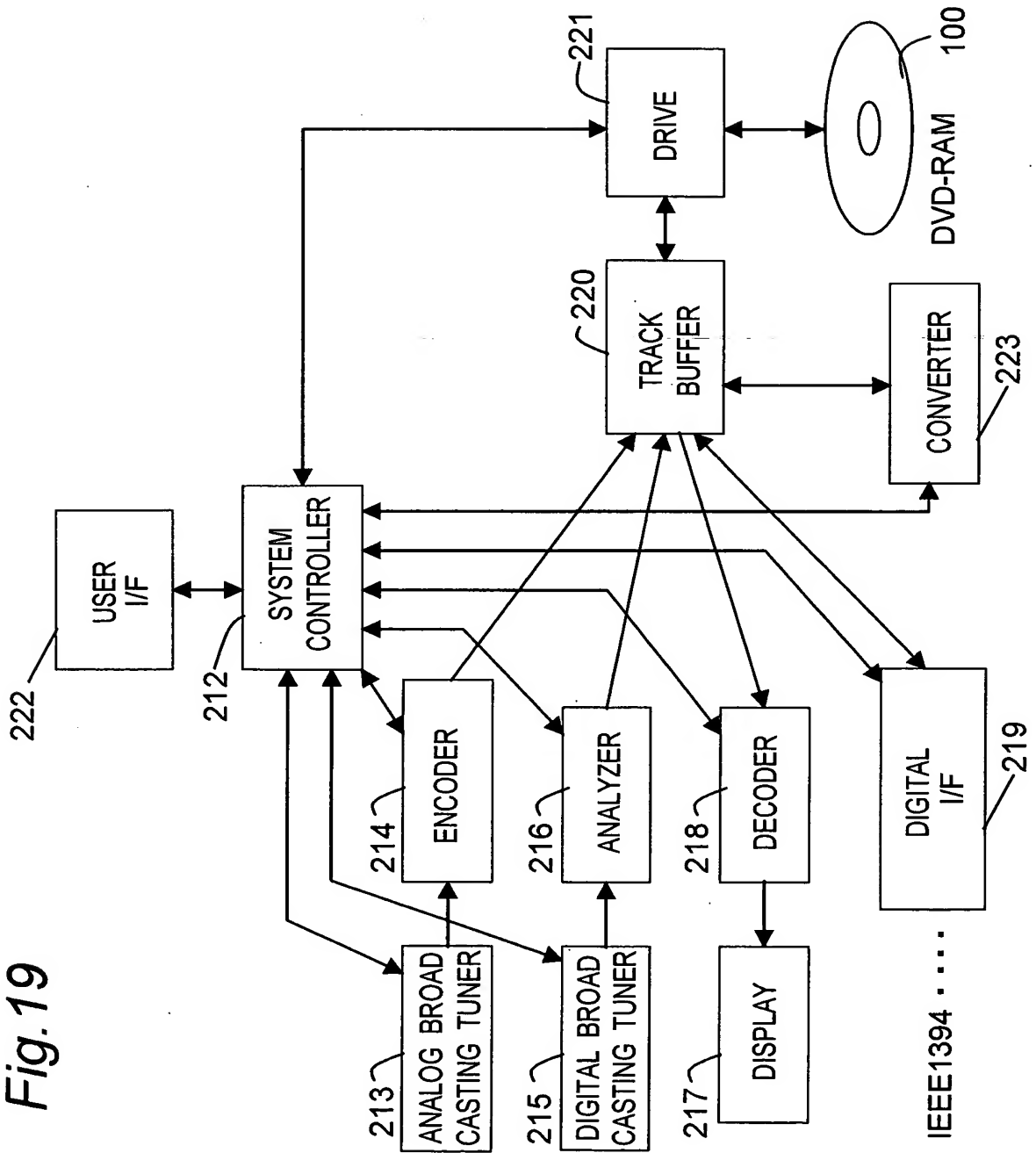


Fig. 19



IEEE1394

Fig. 20

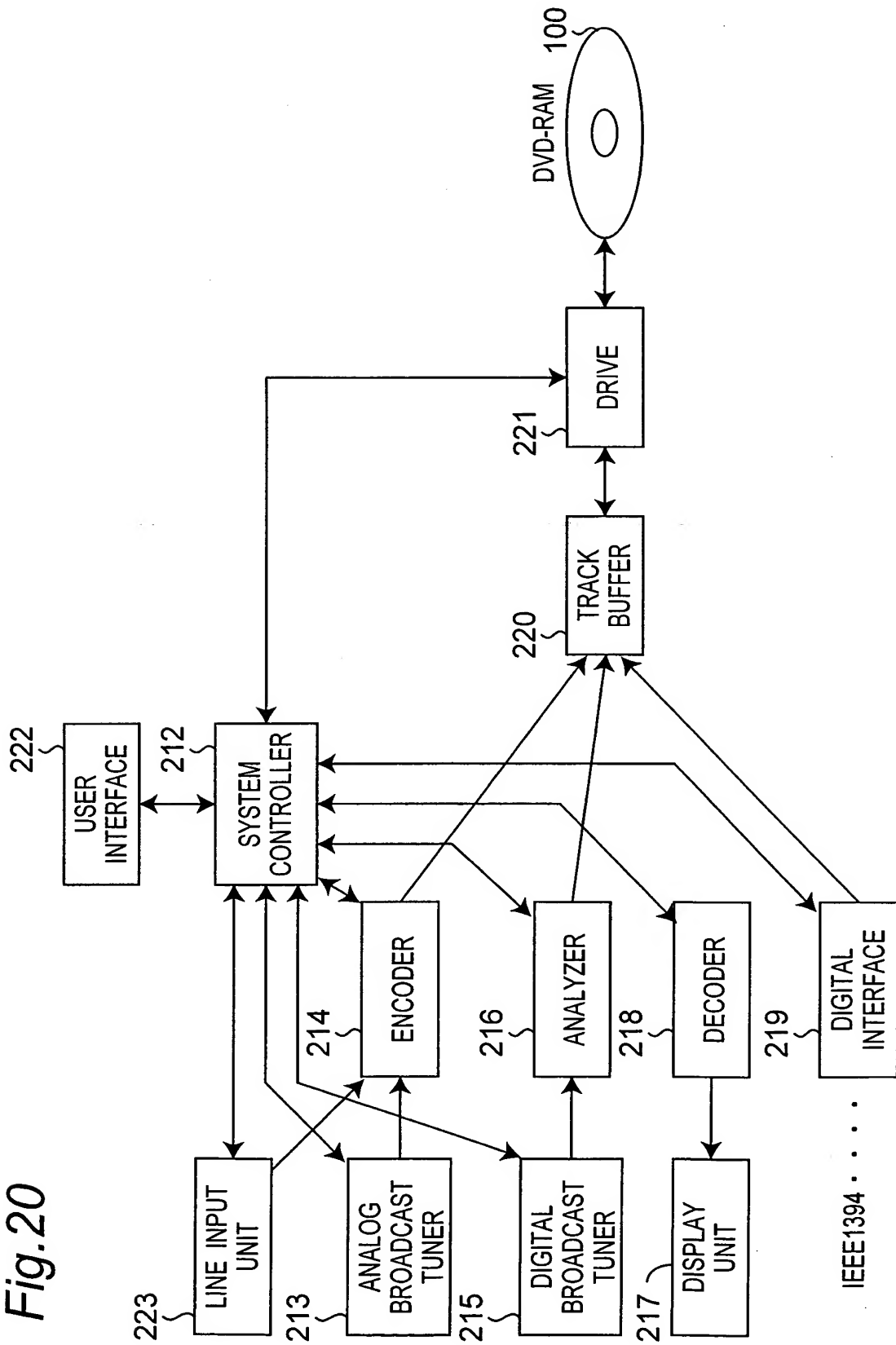
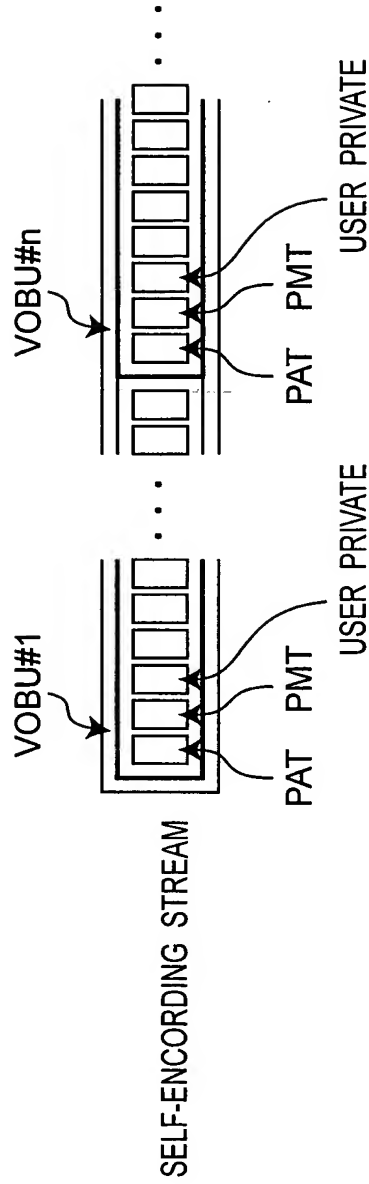


Fig. 21A



A HEAD OF SELF-ENCODING STREAM

230

Fig. 21B

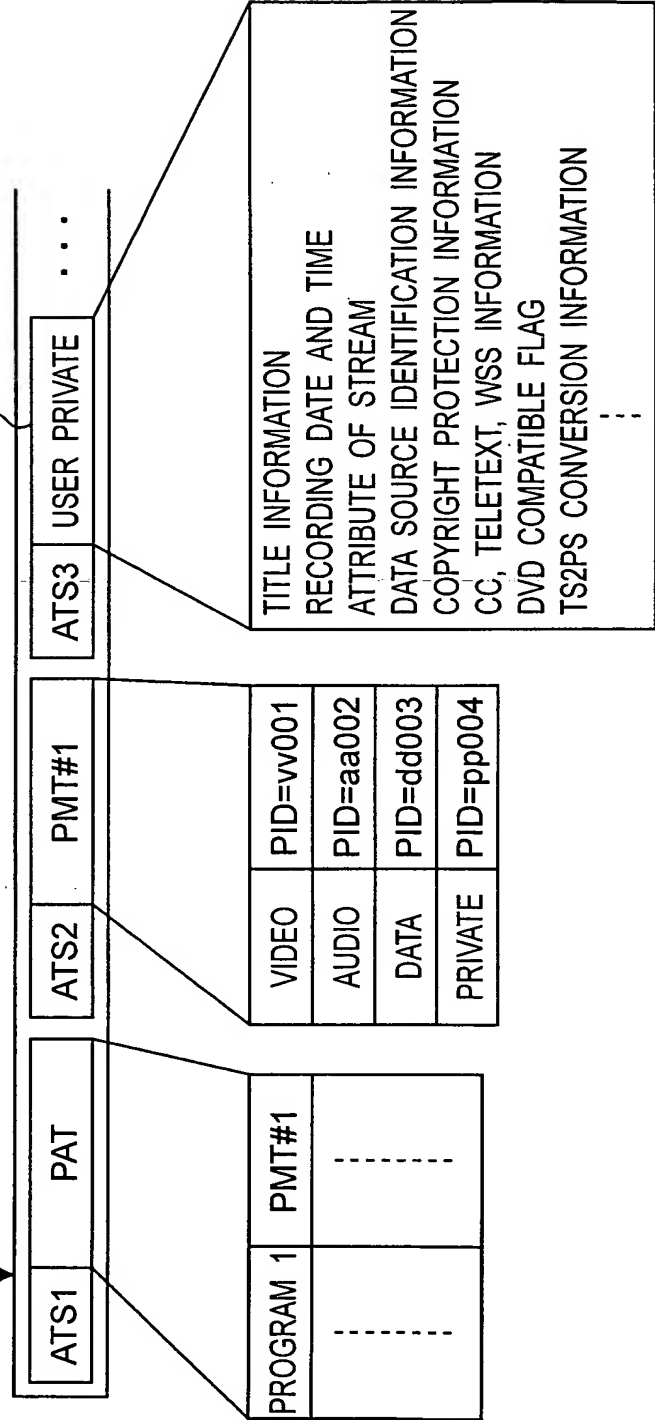


Fig. 22A

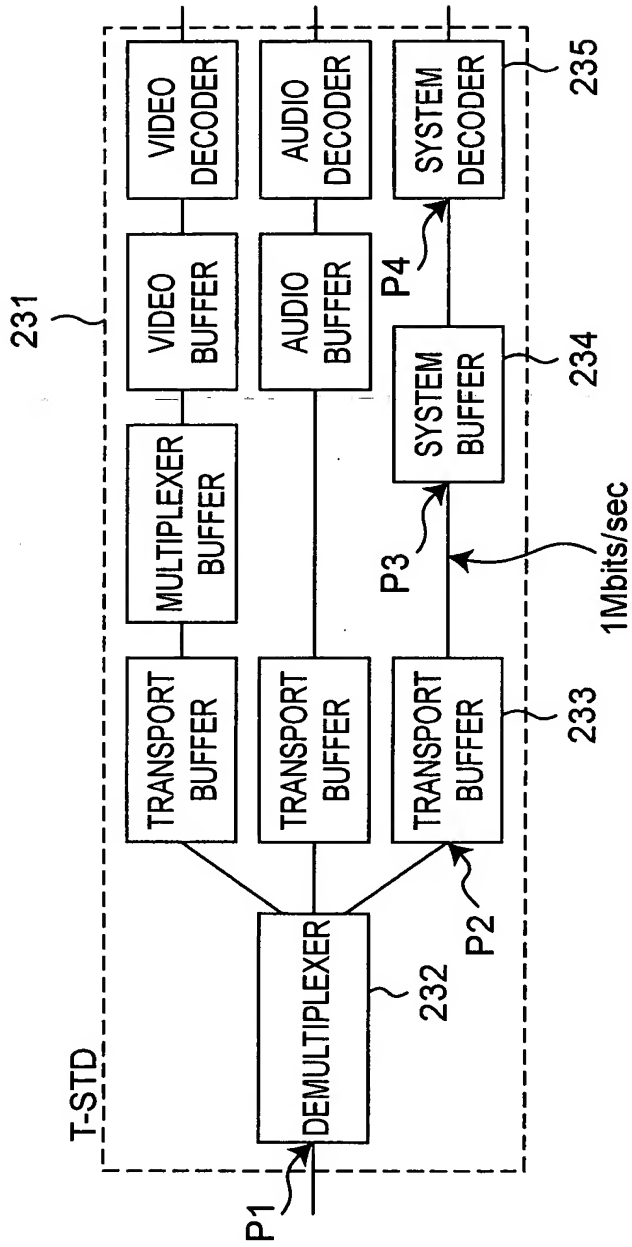


Fig. 22B

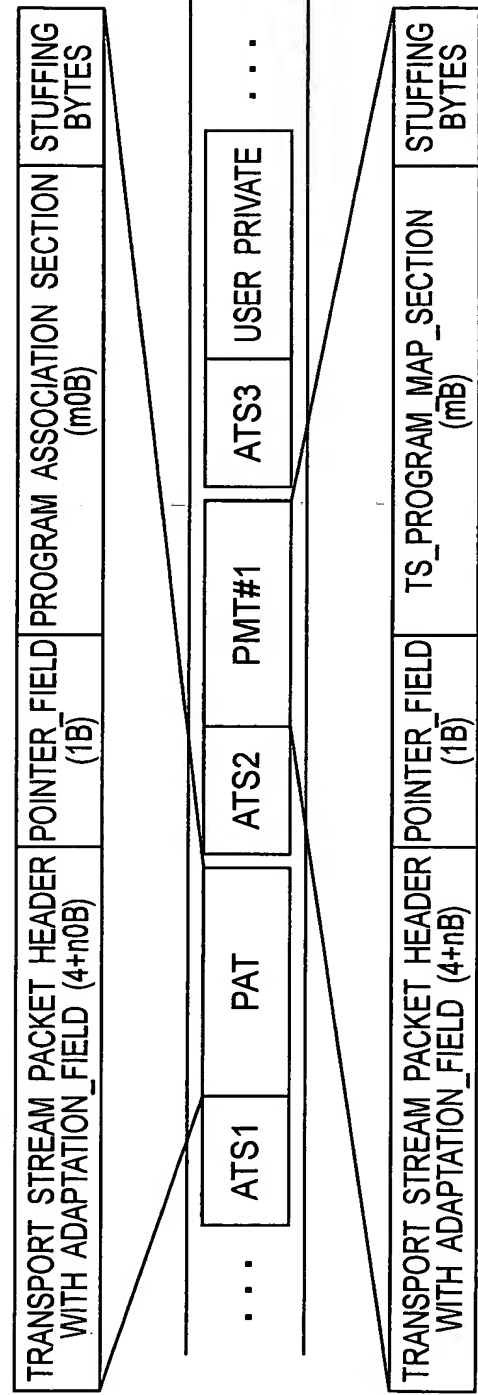


Fig. 23

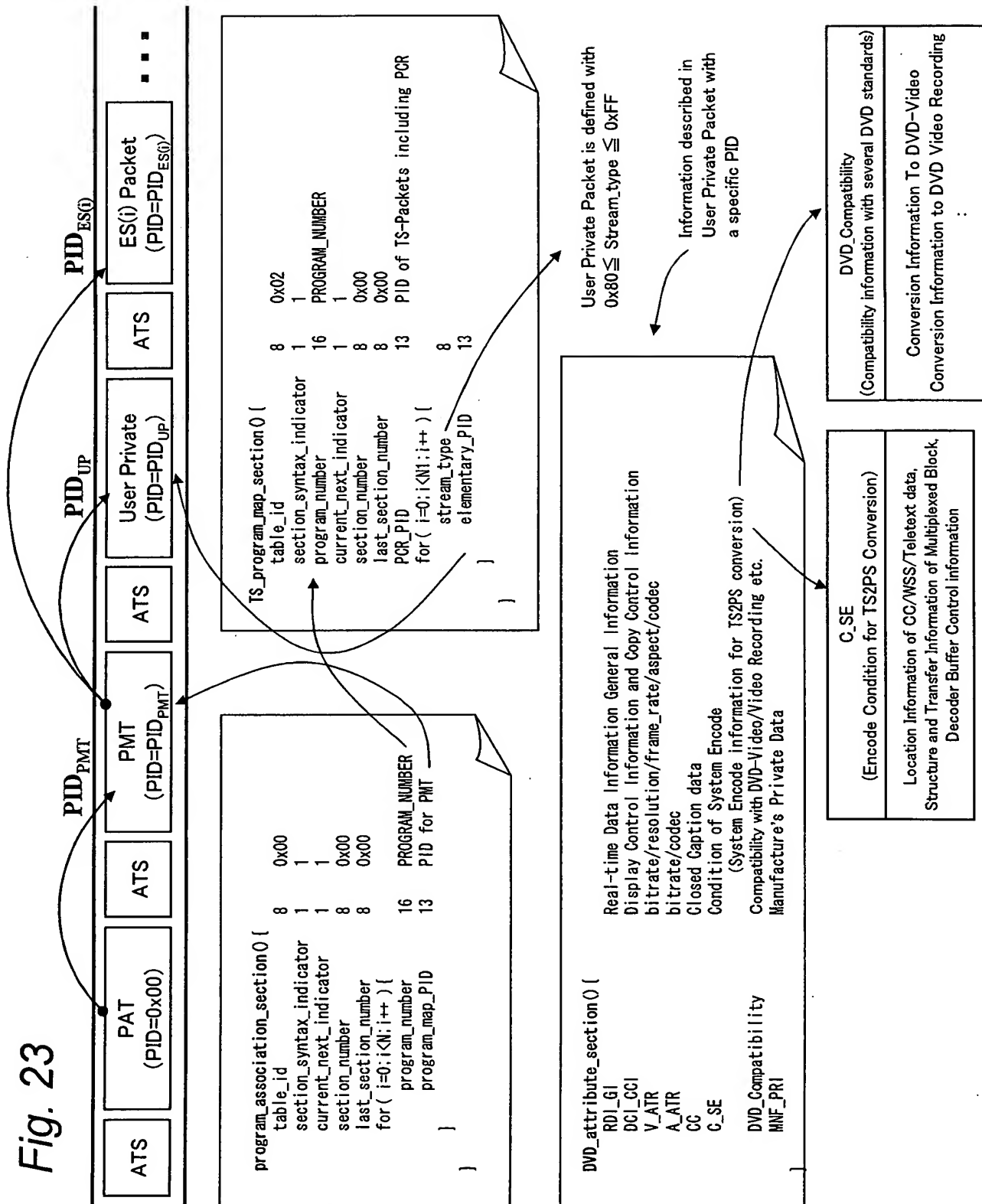


Fig. 24

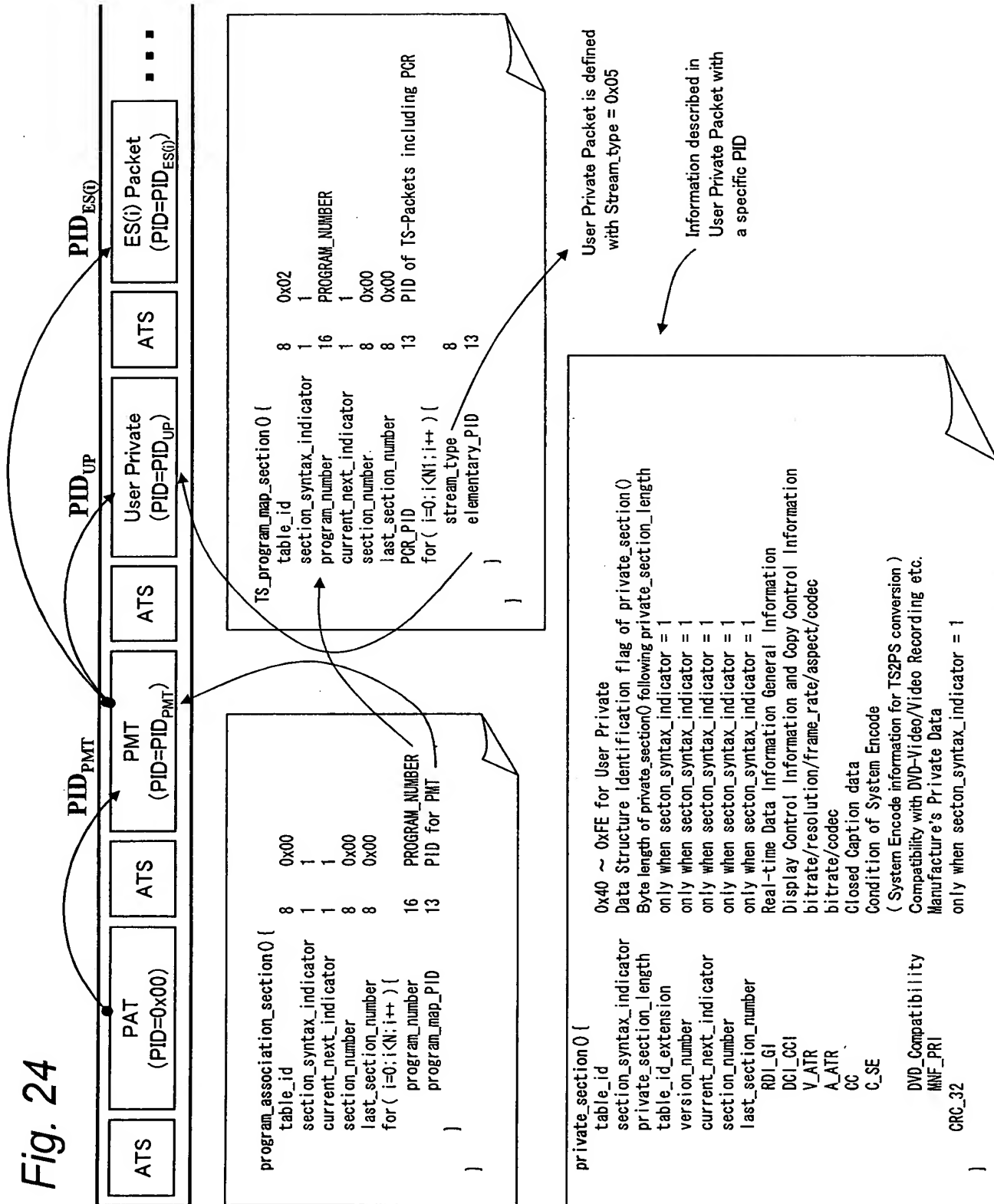


Fig. 25

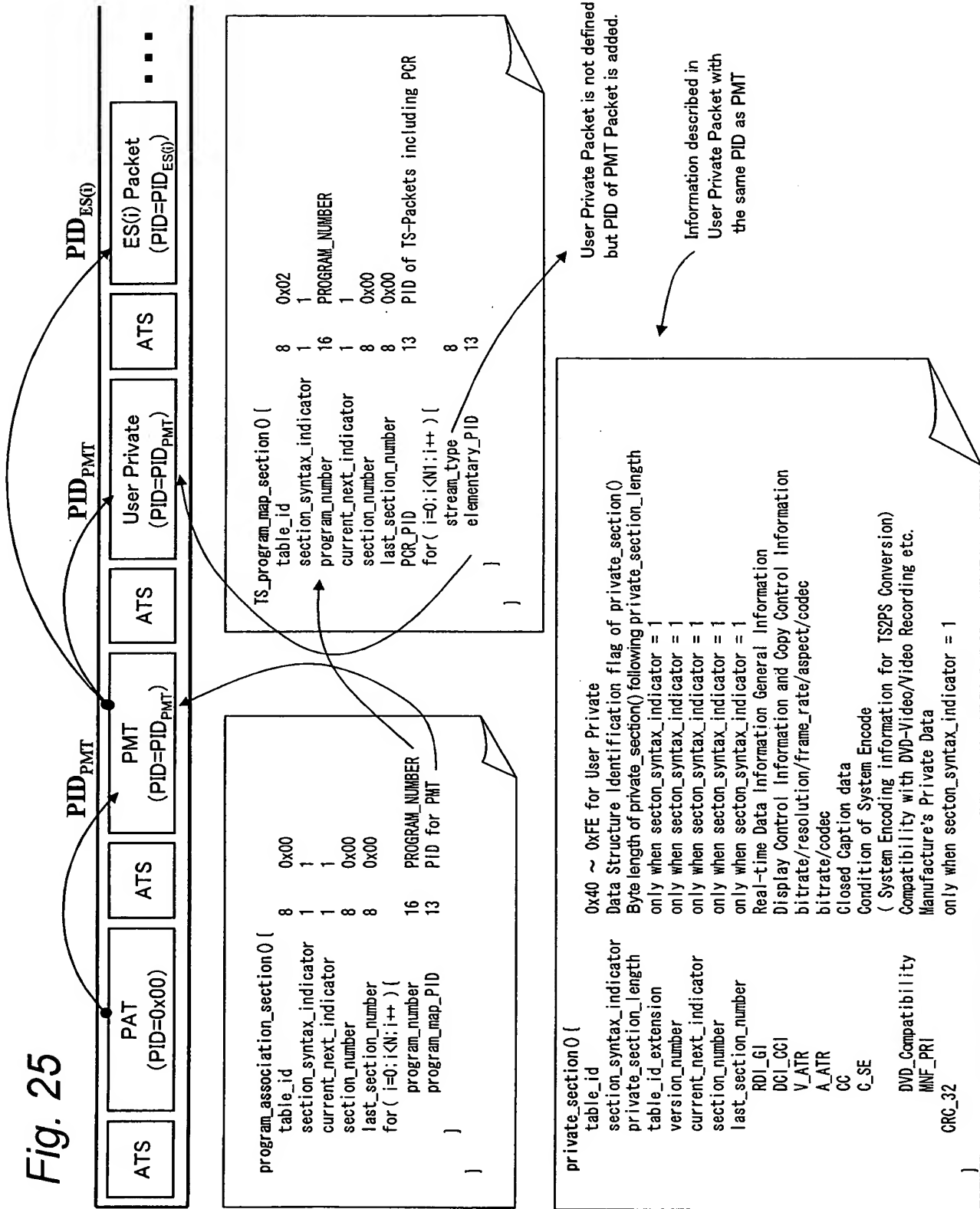
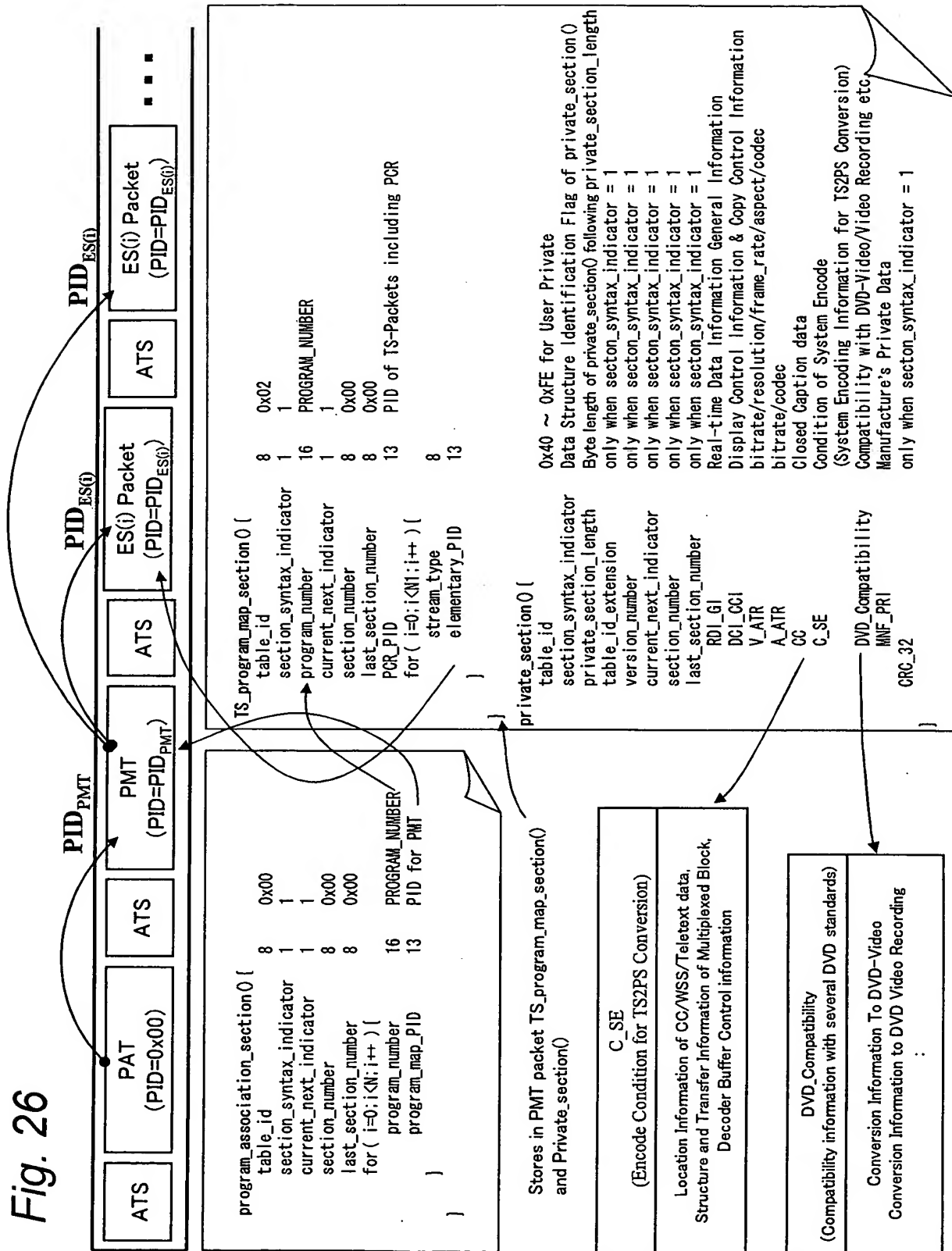
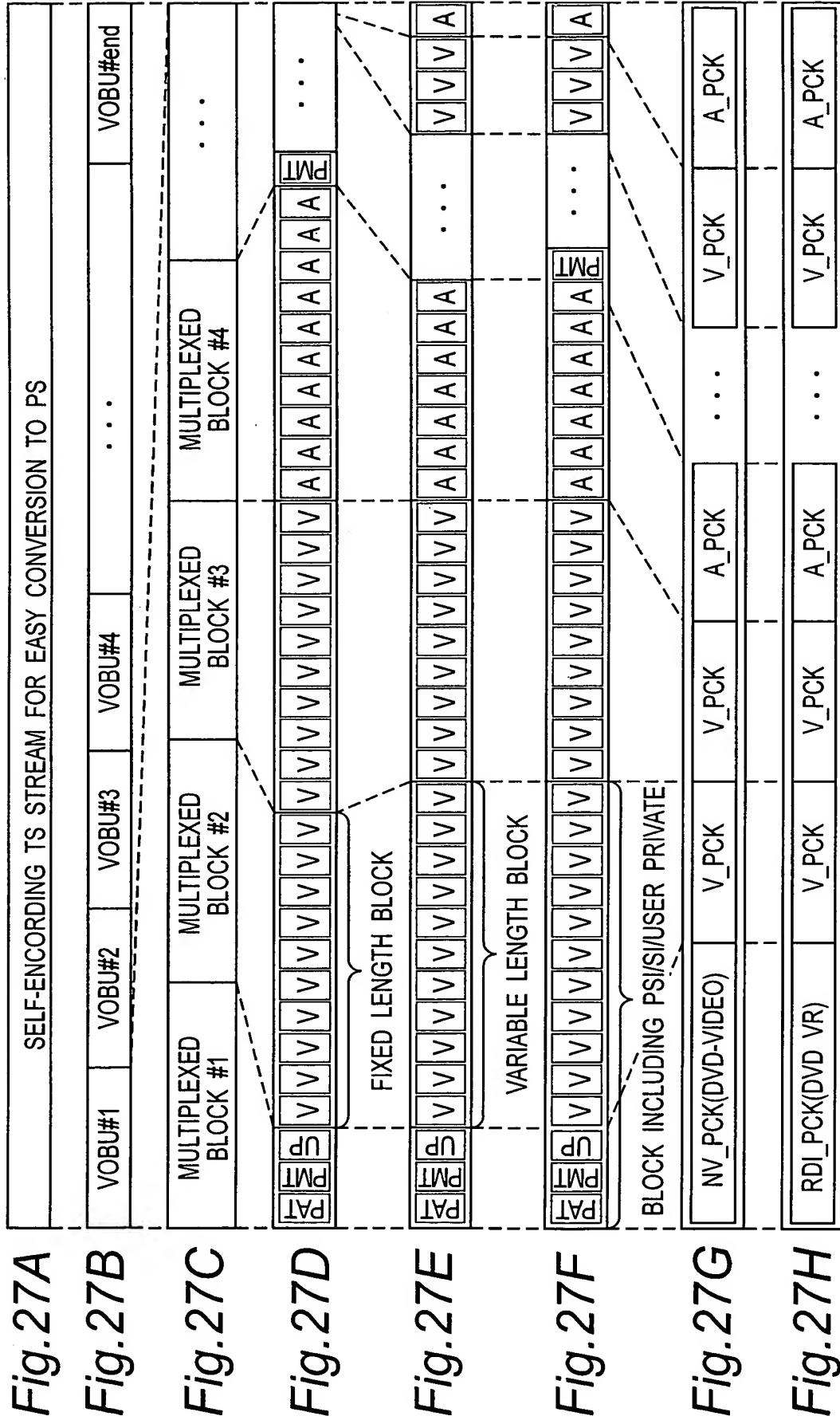


Fig. 26





(*) CAPSULE HEADER AND ATS ARE OMITTED.

(*) EACH PACK IN FIGS. 27G AND 27H ARE STUFFED/PADDED ACCORDING TO BYTE LENGTH OF ELEMENTARY OR VOBUs ALIGNMENT.

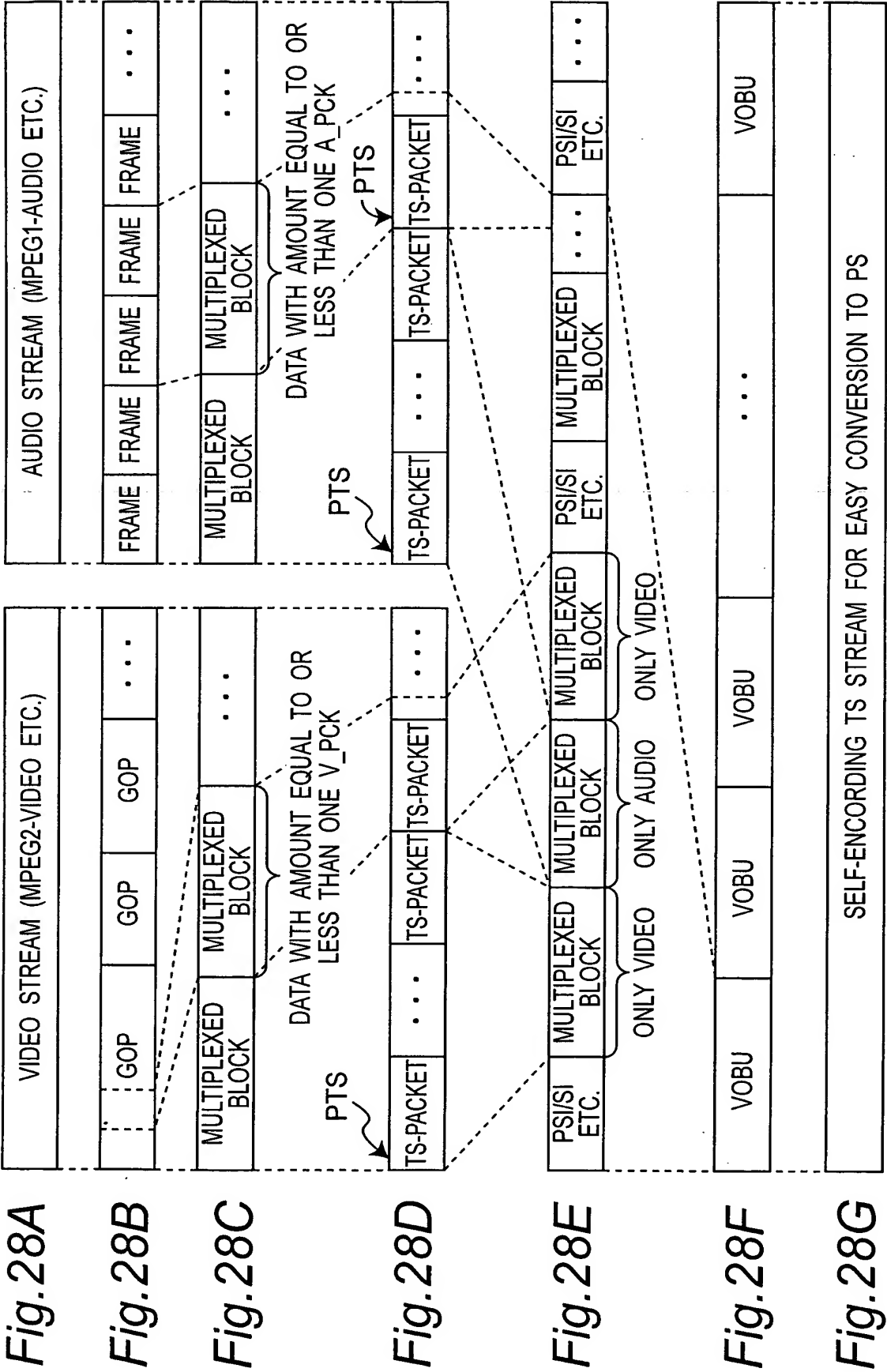
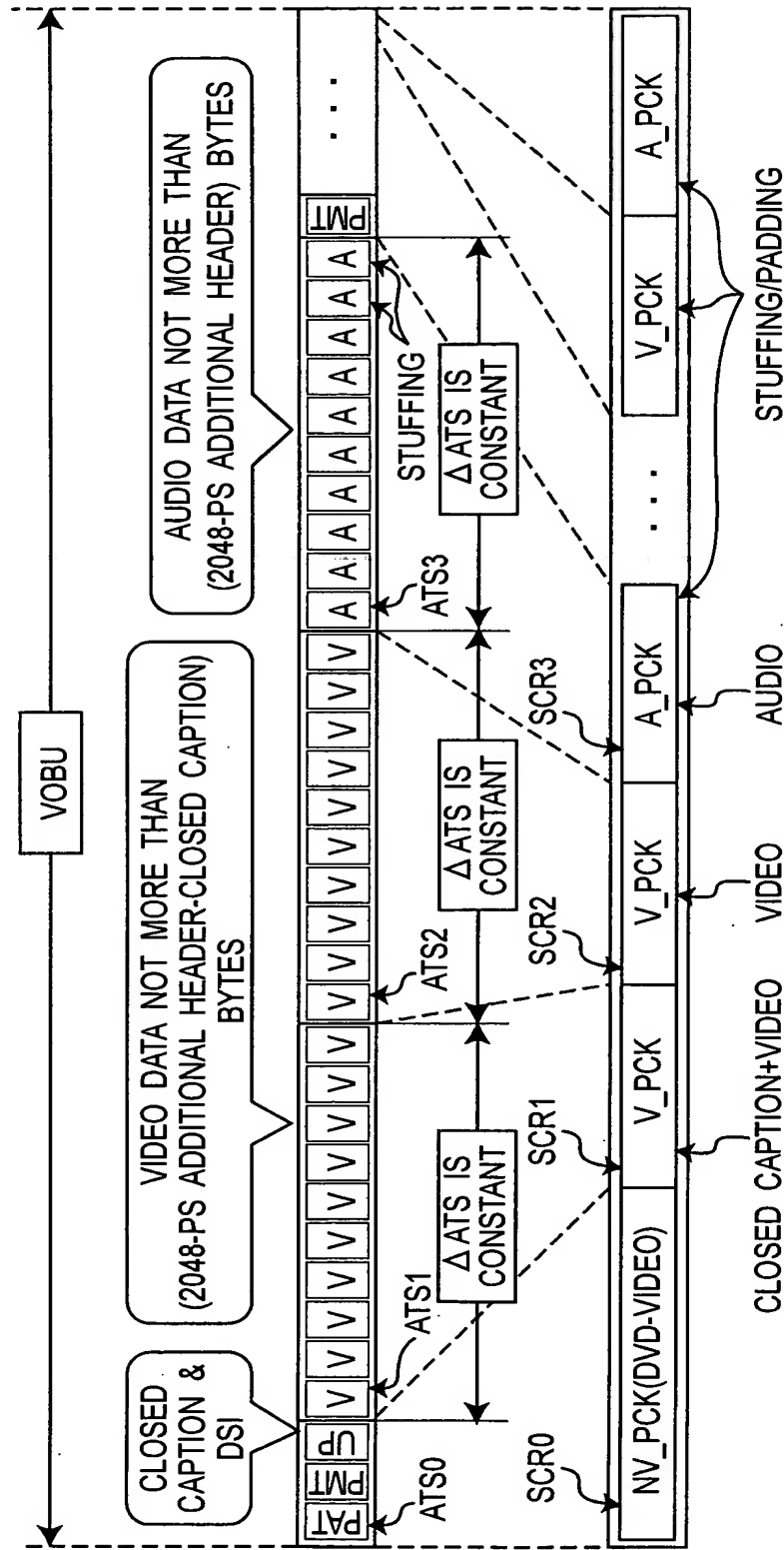


Fig. 29



ATS_i (+CONSTANT) = SCR_i

ATS_i (+NUMBER OF PACKETS IN THE MULTIPLEXED BLOCK) * $\Delta \text{ATS} \leq \text{ATS}_{i+1}$

ATS_i (+NUMBER OF PACKETS IN THE MULTIPLEXED BLOCK) * $\Delta \text{ATS} < \text{ATS}_{i+1}$

SCR_{i+1} - SCR_i $\geq 8 * 2048 * 27 * 10.08$

FOR ALL i

FOR FIXED LENGTH MULTIPLEXED BLOCK

FOR VARIABLE LENGTH MULTIPLEXED BLOCK

MPEG-PS MUX_RATE = 10.08 Mbps

Fig. 30

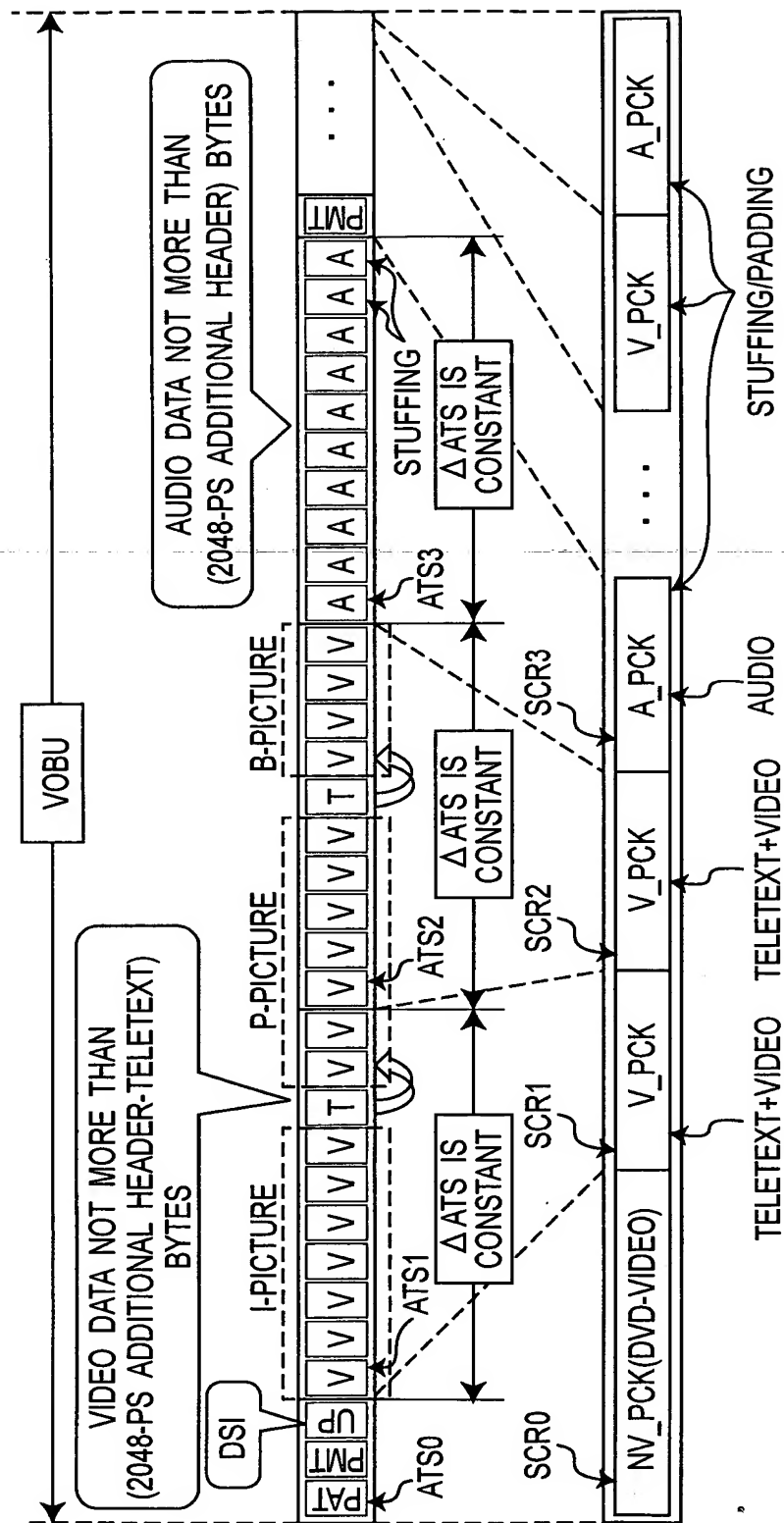


Fig. 31

```

User_Private_transport_packet() {
    sync_byte                8b      0x47
    transport_error_indicator 1b
    payload_unit_start_indicator 1b
    transport_priority        1b
    PID                      13b
    transport_scrambling_control 2b
    adaptation_field_control  2b
    continuity_counter        4b
    pointer_field             8b
    private_section() {
        table_id              8b      0x8F
        section_syntax_indicator 1b      0
        private_indicator      1b      0
        reserved               2b      11b
        private_section_length 12b      180
    }

    RDL_GI (Real-time Data Information General Information)
        VOB_U_S_PTM          68
        Line21_data_length    1B
        presentation starting time of this VOB_U // same as DVD VR spec.
        length of the Line21 data for this VOB_U // max. 120 = 60fields * 2B

    DCI_CCI (Display Control Information and Copy Control Information)
        DCI_CCI_SS           1B
        DCI                   1B
        CCI                   1B
        Status of DCI and CCI // same as DVD VR spec.
        Display Control Information // same as DVD VR spec.
        Copy Control Information // same as DVD VR spec.

    ES_ATRI (Elementary Stream Attribute Information)
        V_ATR                 2B
        A_ATR                 4B
        video_format(3b)/codec(3b)/resolution(3b)/bitrate(3b)/reserved(4b)
        codec(3b)/bitrate(5b)/channel(4b)/quantization(2b) // max. 2 audio stream

    if ( Line21_data_length != 0 ) {
        Line21_switch ceil( (Line21_data_length/8) B // same as DVD-Video/VR spec.
        Line21_data (Line21_data_length) B // same as DVD-Video/VR spec.
        MNF_ID      16B
        MNF_PRI     13-145B
    }
    else {
        MNF_ID      16B
        MNF_PRI     148B
    }
}

```

(*) Ceil() means round-up

Fig. 32

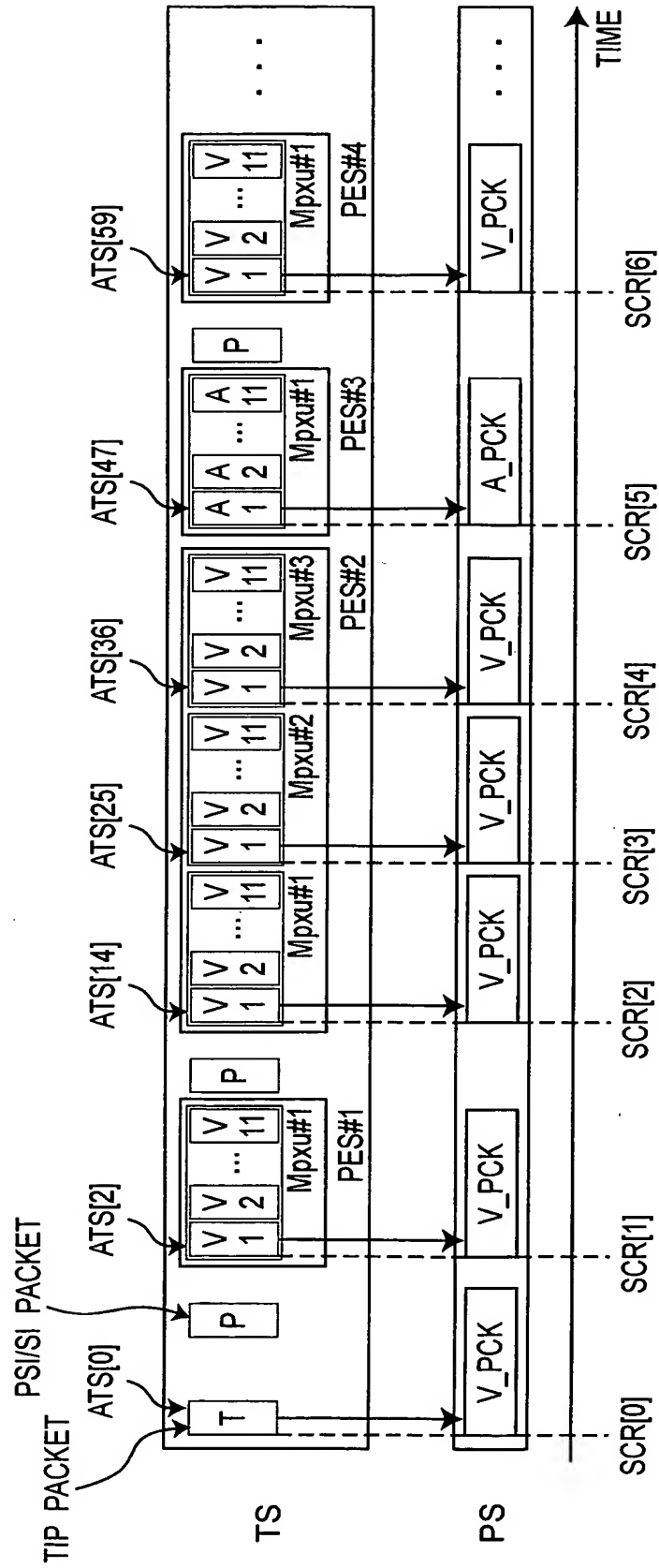


Fig. 33

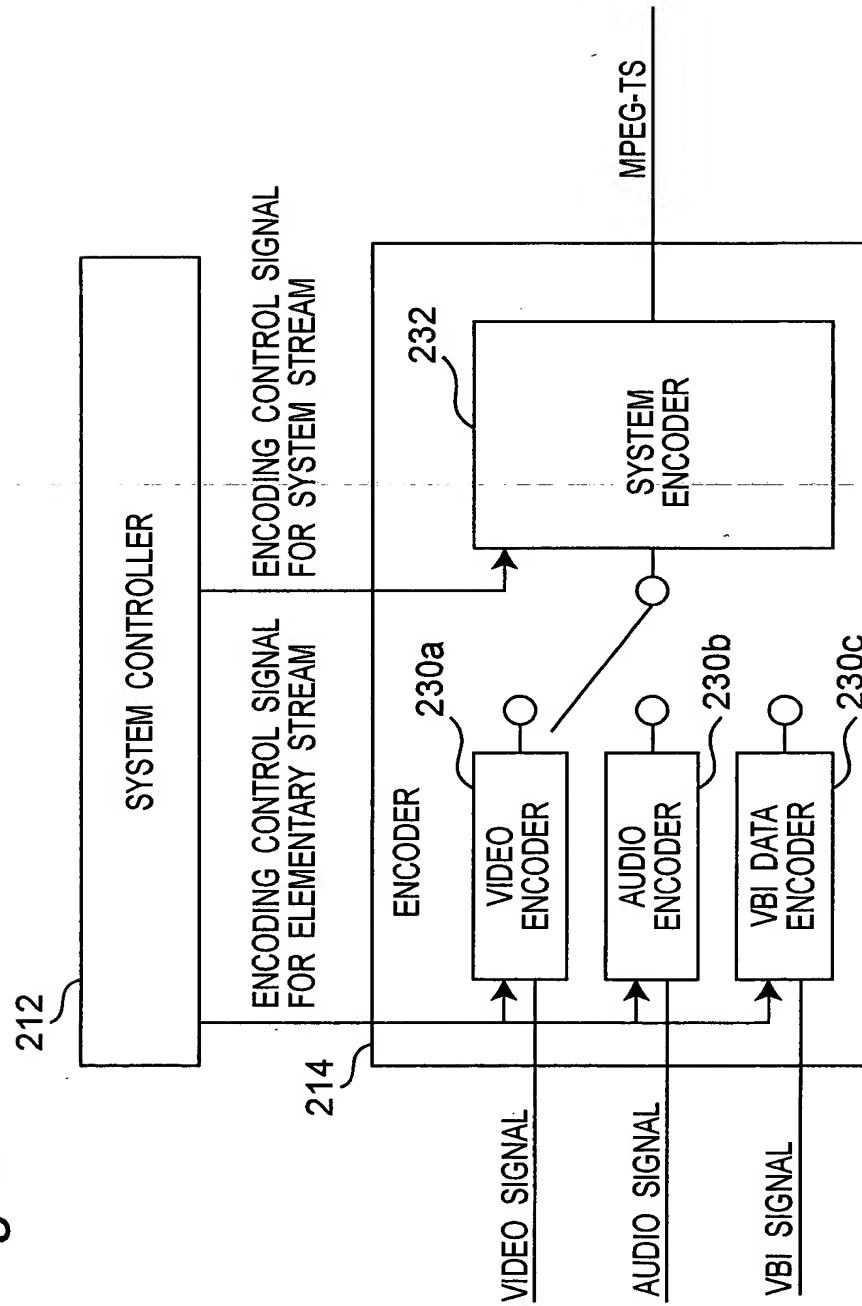


Fig. 34

CONVERSION FROM SELF-ENCODING MPEG-TS TO DVD-Video / DVD VR FORMAT		
<p>WHEN ENCODED TO ELEMENTARY STREAM COMPATIBLE WITH DVD-Video</p>	<p>MPEG-TS ENCODED WITH NORMAL SYSTEM ENCODE (SESF)</p>	<p>MPEG-TS ENCODED WITH SYSTEM ENCODE CAPABLE OF EASY CONVERSION TO MPEG-TS (CONSTRAINED SESEF)</p>
	<p>(CONVERSION TO DVD-Video) ELEMENTARY CAN BE USED AS IT IS. IN RE-ENCODING TO MPEG-PS, ELEMENTARY STREAM HAS TO BE ANALYZED. THE PROCESS IS COMPLICATED.</p>	<p>(CONVERSION TO DVD-Video) ELEMENTARY CAN BE USED AS IT IS. IN RE-ENCODING TO MPEG-PS, ELEMENTARY STREAM DO NOT HAVE TO BE ANALYZED, AND BUFFER MANAGEMENT IS ALSO NOT NEEDED.</p>
	<p>(CONVERSION TO DVD VR) ELEMENTARY CAN BE USED AS IT IS. IN RE-ENCODING TO MPEG-PS, ELEMENTARY STREAM HAS TO BE ANALYZED. THE PROCESS IS COMPLICATED.</p>	<p>(CONVERSION TO DVD VR) ELEMENTARY CAN BE USED AS IT IS. IN RE-ENCODING TO MPEG-PS, ELEMENTARY STREAM DO NOT HAVE TO BE ANALYZED, AND BUFFER MANAGEMENT IS ALSO NOT NEEDED.</p>

Fig.35

Tip PACKET			
Syntax	No. of bits	Mnemonic	
transport_packet(){			
sync_byte	8	bslbf	
transport_error_indicator	1	bslbf	
payload_unit_start_indicator	1	bslbf	
transport_priority	1	bslbf	
PID	13	uimbsbf	
transport_scrambling_control	2	bslbf	
adaptation_filed_control	2	bslbf	
continuity_counter	4	uimbsbf	
adaptation_field()			
Tip_Data(){			
Data_ID()	4*8		
display_and_copy_info()	8*8		
encode_info()	141*8		
MakersPrivateData()	41*8		
}			
}			

Fig.36

adaptation_field()			
Syntax		No. of bits	Mnemonic
adaptation_field(){			
adaptation_field_length		8	uimsbf
discontinuity_indicator		1	bslbf
random_access_indicator		1	bslbf
elementary_stream_priority_indicator		1	bslbf
PCR_flag		1	bslbf
OPCR_flag		1	bslbf
splicing_point_flag		1	bslbf
transport_private_data_flag		1	bslbf
adaptation_field_extension_flag		1	bslbf
program_clock_reference_base		33	uimsbf
reserved		6	bslbf
program_clock_reference_extension		9	uimsbf
}			

Fig.37

Data_ID()			
Syntax		No. of bits	Mnemonic
Data_ID(){			
Data_Identifier		24	uimbsbf
reserved		8	bslbf
}			

Fig.38

display_and_copy_info()			
Syntax		No. of bits	Value
display_and_copy_info(){			
reserved		40	bslbf
display_control_info_status		2	bslbf
reserved		2	bslbf
copy_control_info_status		3	bslbf
reserved		1	bslbf
Aspect ratio		4	bslbf
Subtitling mode		2	bslbf
reserved		1	bslbf
Film camera mode		1	bslbf
CGMS		2	bslbf
APSTB		2	bslbf
Source		1	bslbf
reserved		3	bslbf
}			

Fig.39

encode_info()			
Syntax		No. of bits	Value
encode_info(){			
video_resolution		4	bslbf
reserved		2	bslbf
encode_condition		2	bslbf
reserved		8	bslbf
FVFPST		48	bslbf
reserved		8	bslbf
PES-info()		976(=8 * 122)	
}			

Fig. 40

PES_INFO(
SYNTA	NO. OF BITS	VALU
PES_info(){		
for(j=0;j<136;j++){		
PES_existence_flag	1	bslbf
PES_payload_identifier	1	bslbf
if(PES_payload_identifier==0b){		
picture_coding_type	2	bslbf
}		
if(PES_payload_identifier==1b){		
stream_identifier	1	bslbf
sync_presentation_flag	1	bslbf
}		
}		
while(!bytealigned)		
zero_bit	1	bslbf
}		

Fig. 41

MakersPrivateData()		
Syntax	No. of bits	Value
MakersPrivateData(){		
maker_ID	16	uimbsf
maker_private_data	312(=39*8)	bslbf
}		

Fig. 42A

PID assignments	
PID value	meaning
0x1031	The PID of the transport packets which carry the Tip data stream

Fig. 42B

stream_type assignments	
stream_type value	Description
0xC3	Tip data stream

Fig. 43

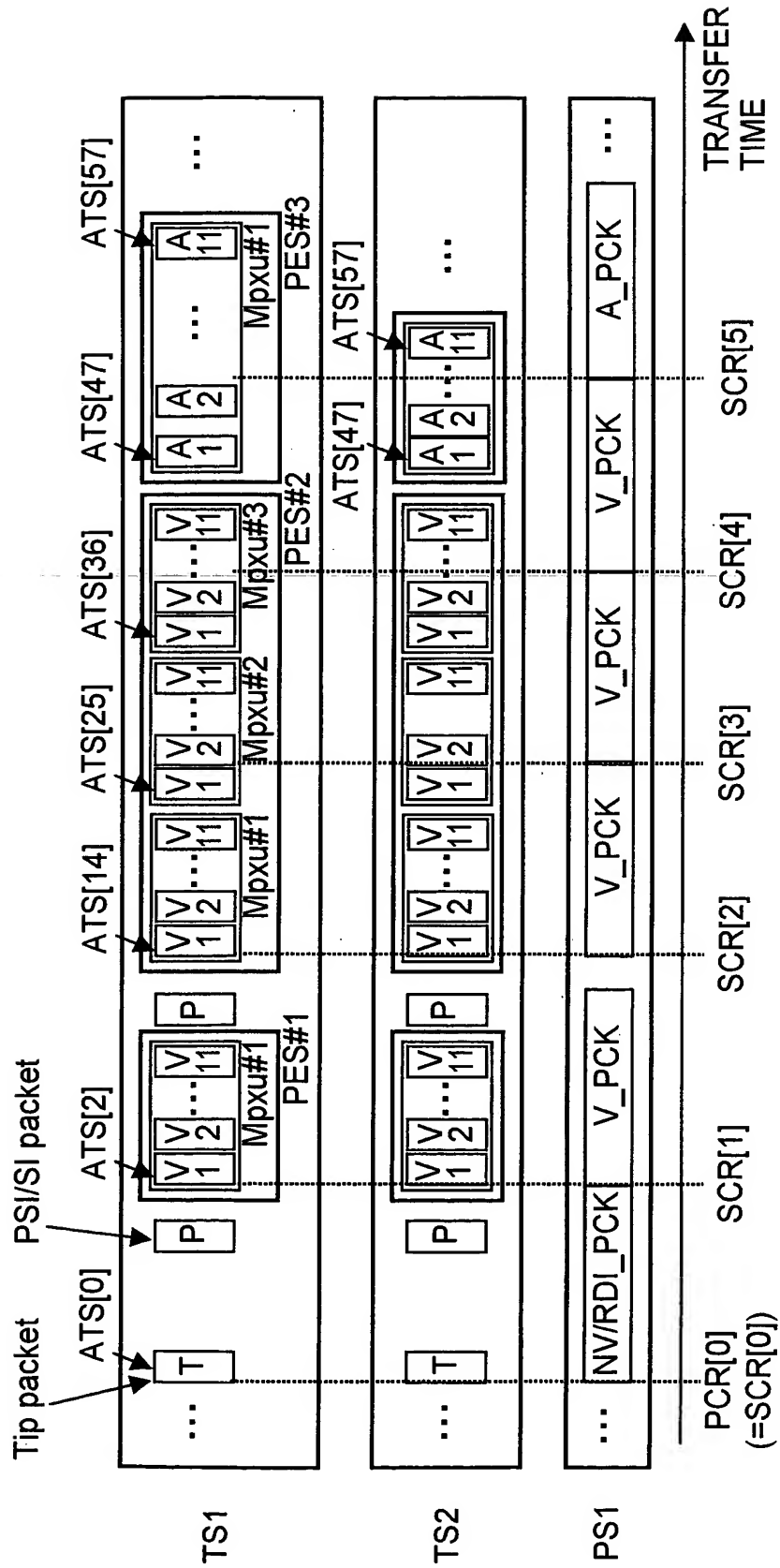
PES PACKET HEADER OF PES PACKET IN CONSTRAINED SESF		
fields		Permitted value in Constrained SESF
PES_packet_length		CONFORM TO ISO/IEC13818-1
PES_priority		0b
data_alignment_indicator		0b
copyright		0b
PTS_DTS_flags		00b, 10b or 11b
ESCR_flag		0b
ES_rate_flag		0b
DSM_trick_mode_flag		0b
additional_copy_info_flag		0b
PES_CRC_flag		0b
PES_extension_flag		Refer to Fig.31
PES_header_data_length		Refer to Fig.31
PES_private_data_flag		0b, if exists
pack_header_field_flag		0b, if exists
program_packet_sequence_counter_flag		0b, if exists
P-STD_buffer_flag		0b, if exists
PES_extension_flag_2		0b, if exists
stuffing_byte		STUFFED FULLY WITH '0xFF'

Fig.44

CONSTRAINT FOR PES_extension_flag AND PES_header_data_length					
PES packet		encode_condition=01b		encode_condition=11b	
STORED DATA	MULTIPLIED POSITION	VALUE OF PES_extension_flag AND PES_header_data_length	BYTE LENGTH OF stuffing_byte	VALUE OF PES_extension_flag AND PES_header_data_length	BYTE LENGTH OF stuffing_byte
MPEG2-Video, MPEG1-Audio	FIRST FOLLOWING TIP PACKET	PES_extension_flag=1b PES_header_data_length=VPD+3	2	PES_extension_flag=0b PES_header_data_length=VPD	0
	OTHERS	PES_extension_flag=0b PES_header_data_length=VPD	0		
AC-3 audio	FIRST FOLLOWING TIP PACKET	PES_extension_flag=1b PES_header_data_length=VPD+7	6	PES_extension_flag=0b PES_header_data_length=VPD+4	4
	OTHERS	PES_extension_flag=0b PES_header_data_length=VPD+4	4		

$$VPD = \begin{cases} 0, & (\text{WHEN PTS_DTS_flags}=00b) \\ 5, & (\text{WHEN PTS_DTS_flags}=01b) \\ 10, & (\text{WHEN PTS_DTS_flags}=11b) \end{cases}$$

Fig. 45



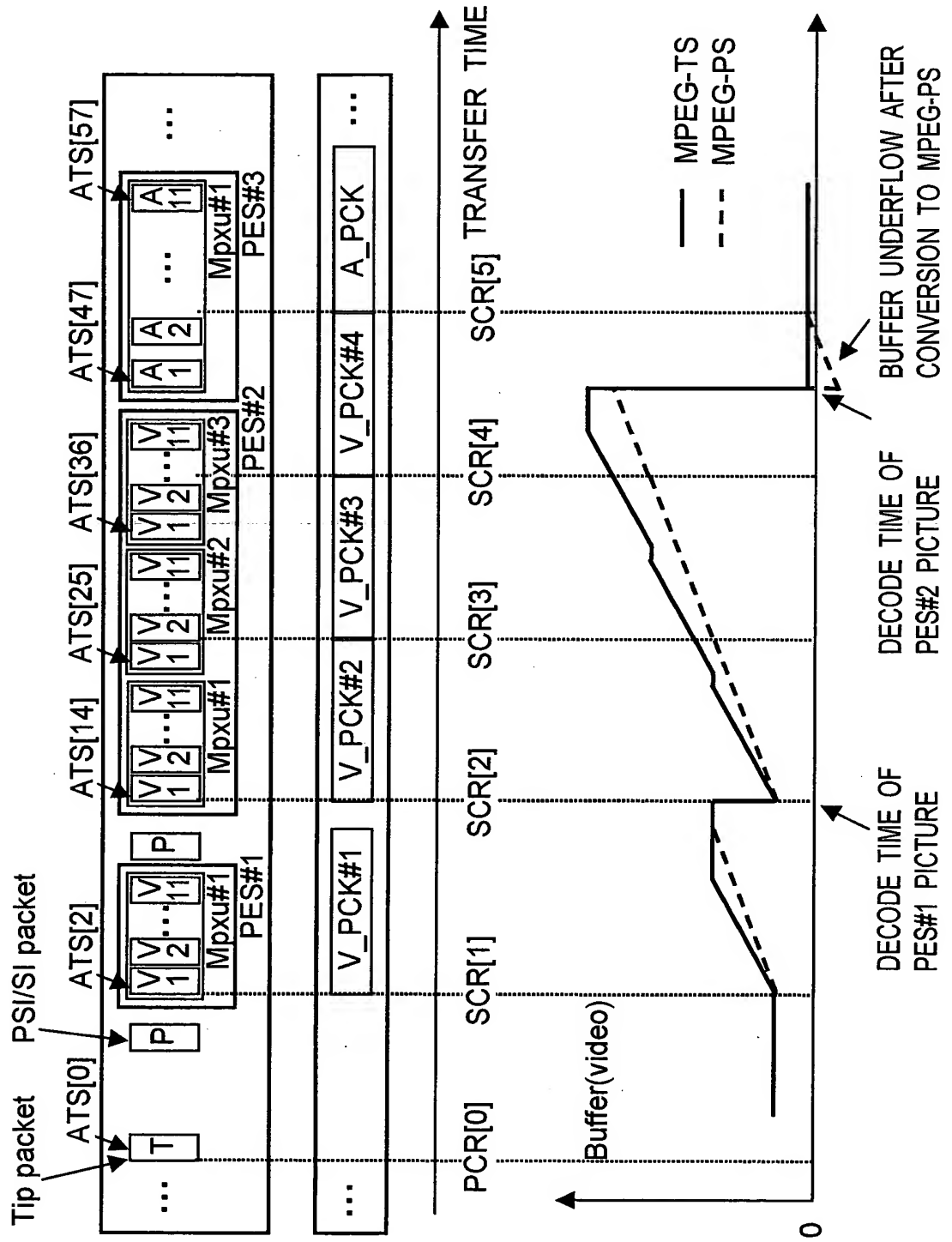


Fig. 46A

TS3

PS3

Fig. 46B

Fig.48

ATTRIBUTE OF ELEMENTARY STREAM FOR encode_condition=11b			
	NTSC	PAL	
Video	Source picture resolution	720x480,704x480, 352x480,352x240 (*Note1)	720x576,704x576, 352x576,352x288 (*Note1)
	Aspect ratio	Display aspect ratio (*Note1) of 4:3 or 16:9	
	Bit rate	9.8Mbps (MAXIMUM)	
	GOP length	36 or less display fields	30 or less display field
	Sequence_end_code	once in end of VOB	
	Closed Captioning data	GOP layer user_data (same format as DVD VR) Picture layer (same format as ATSC)	N/A
	Teletext	N/A	Teletext transport packet (same format as DVB)
Audio	WSS	(Tip transport packet)	Tip transport packet Picture layer user_data (SESF original format)
	Quantization	16bits	
	Sampling frequency	48KHz	
	Bit rate	64-384Kbps for MPEG-1 Audio, 64-448Kbps for AC-3 (*Note1)	
	Number of audio channels	1-2ch for MPEG-1 Audio, 1-5.1ch for AC-3 (*Note1)	

Fig. 49

ATTRIBUTE OF ELEMENTARY STREAM FOR encode_condition=01b			
		NTSC	PAL
Video	Source picture resolution	720x480,704x480, 544x480,480x480, 352x480,352x240 (*Note2)	720x576,704x576, 544x576,480x576, 352x576,352x288 (*Note2)
	Aspect ratio	Display aspect ratio (*Note2) of 4:3 or 16:9	
	Bit rate	9.8Mbps (MAXIMUM)	
	GOP length	36 or less display fields	30 or less display fields
	Sequence_end_code	at least 90 display fields for sequence_end_code (*Note3)	at least 75 display fields for sequence_end_code (*Note3)
	Closed Captioning data	GOP layer user data (same format as DVD VR) Picture layer (same format as ATSC)	N/A
	Teletext	N/A	Teletext transport packet (same format as DVB)
Audio	WSS	(Tip transport packet)	Tip transport packet Picture layer user_data (SESF original format)
	Quantization	16bits	
	Sampling frequency	48KHz	
	Bit rate	64-384Kbps for MPEG-1 Audio, 64-448Kbps for AC-3 (*Note1)	
	Number of audio channels	1-2ch and dual mono for MPEG-1 Audio, 1-5.1ch and dual mono for AC-3 (*Note4)	

Fig. 50

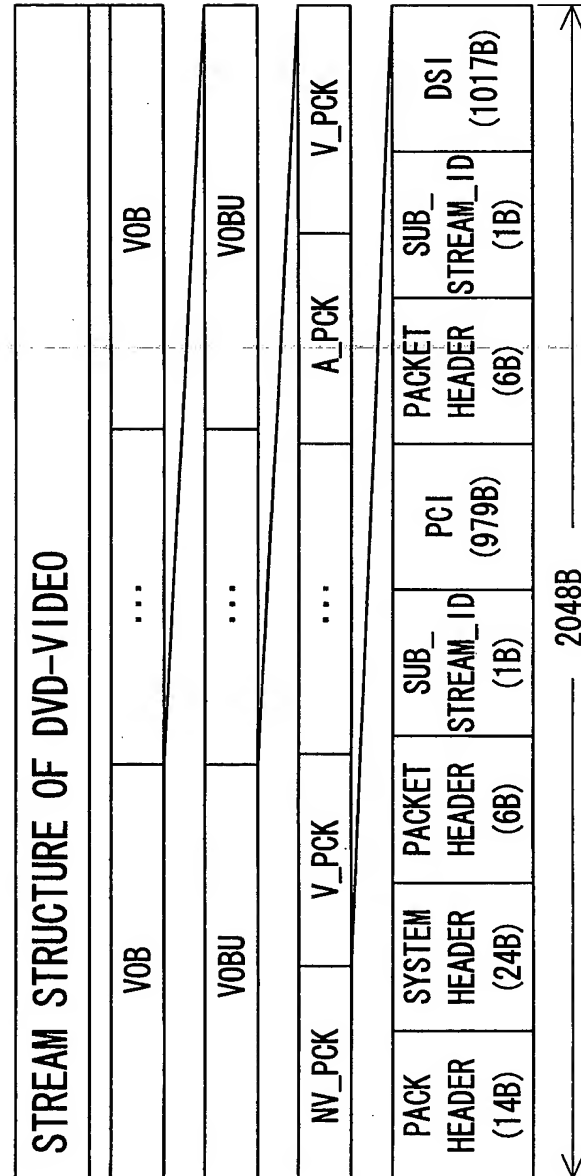


Fig. 51

PCI OF NV_PCK			
SYNTAX	NO	OF BITS	MNEMONIC
PCI () {			
PCI_GI ()	480	(=8*60)	
NSML_AGLI ()	288	(=8*36)	
HLI ()	5552	(=8*694)	
RECI ()	1512	(=8*189)	
}			

Fig. 52

PCI_GI OF NV_PCK			
SYNTAX		NO. OF BITS	MNEMONIC
PCI_GI () {			
NV_PCK_LBN		32	uimsbf
VOBU_CAT		16	bslbf
reserved		16	bslbf
VOBU_UOP_CTL		32	bslbf
VOBU_S_PTM		32	uimsbf
VOBU_E_PTM		32	uimsbf
VOBU_SE_E_PTM		32	uimsbf
C_ELTm		32	bslbf
reserved		256	bslbf
}			

Fig. 53

DSI OF NV_PCK		
SYNTAX	NO. OF BITS	MNEMONIC
DSI () {		
DSI_GI ()	256 (=8*32)	
SML_PBI ()	1184 (=8*148)	
SML_AGLI ()	432 (=8*54)	
VOBU_SRI ()	1344 (=8*168)	
SYNCI ()	1152 (=8*144)	
reserved	3768 (=8*471)	bslbf
}		

Fig. 54

DSI_GI OF NV_PCK			
SYNTAX		NO. OF BITS	MNEMONIC
DSI_GI() {			
NV_PCK_SCR		32	uimsbf
NV_PCK_LBN		32	uimsbf
VOBU_EA		32	uimsbf
VOBU_1STREF_EA		32	uimsbf
VOBU_2NDREF_EA		32	uimsbf
VOBU_3RDREF_EA		32	uimsbf
VOBU_VOB_IDN		16	uimsbf
reserved		8	bslbf
VOBU_C_IDN		8	uimsbf
C_ELTM		32	bslbf
}			

Fig. 55

SML_PBI OF NV_PCK			
SYNTAX		NO. OF BITS	MNEMONIC
PML_PBI () {			
VOBU_SML_CAT		16	bslbf
ILVU_EA		32	uimsbf
NXT_ILVU_SA		32	uimsbf
NXT_ILVU_SZ		16	uimsbf
VOB_V_S_PTM		32	uimsbf
VOB_V_E_PTM		32	uimsbf
VOB_A_STP_PTM		512 (=8*64)	bslbf
VOB_A_GAP_LEN		512 (=8*64)	bslbf
}			

Fig. 56

SYNCl OF NV_PCK		
SYNTAX	NO. OF BITS	MNEMONIC
SYNCl O {		
A_SYNCA0	16	bs bf
:		
A_SYNCA7	16	bs bf
SP_SYNCA0	32	bs bf
:		
SP_SYNCA31	32	bs bf
}		

Fig. 57

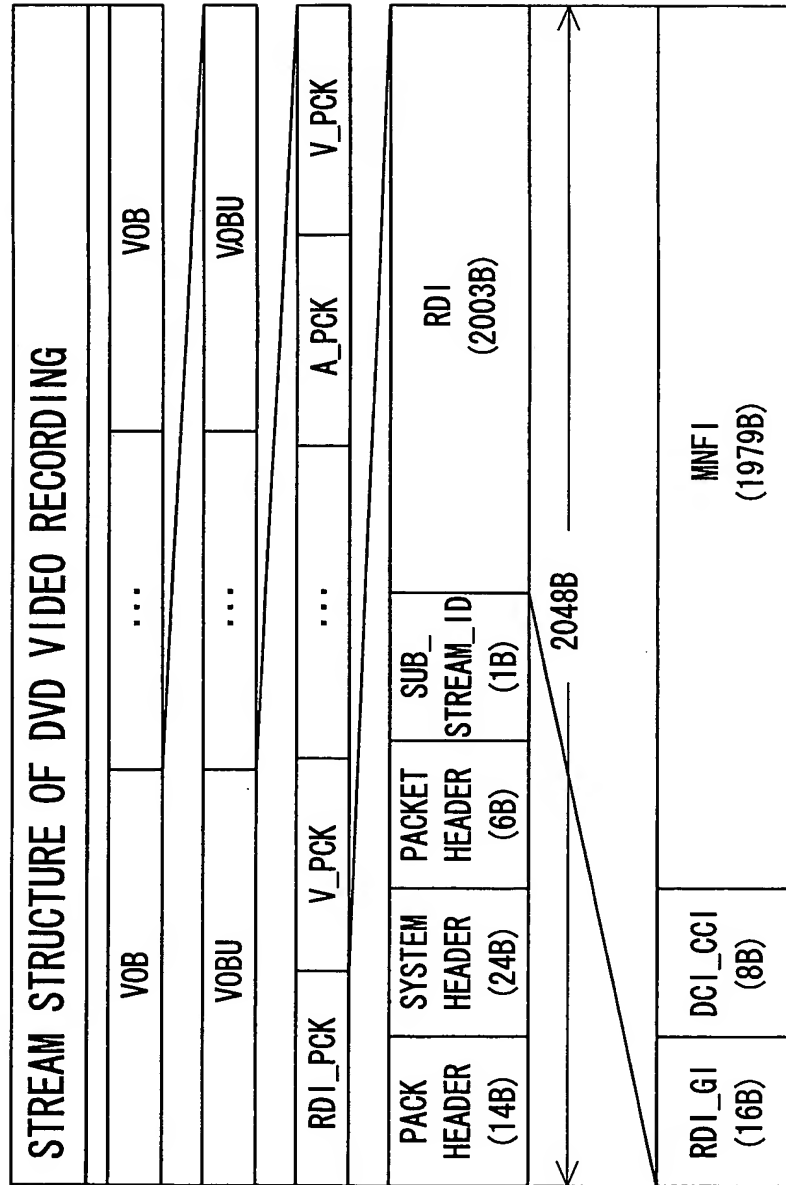


Fig. 58

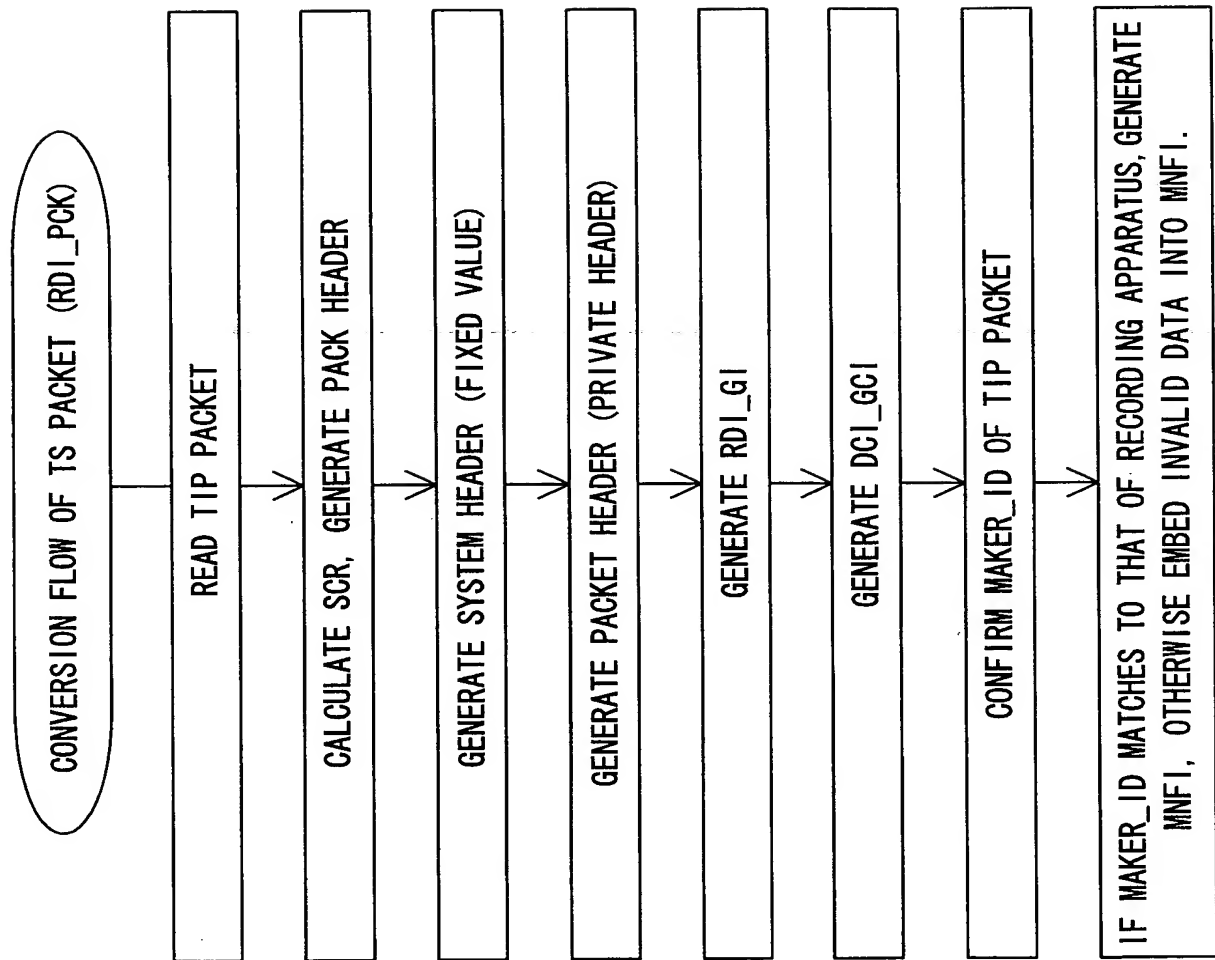


Fig. 59

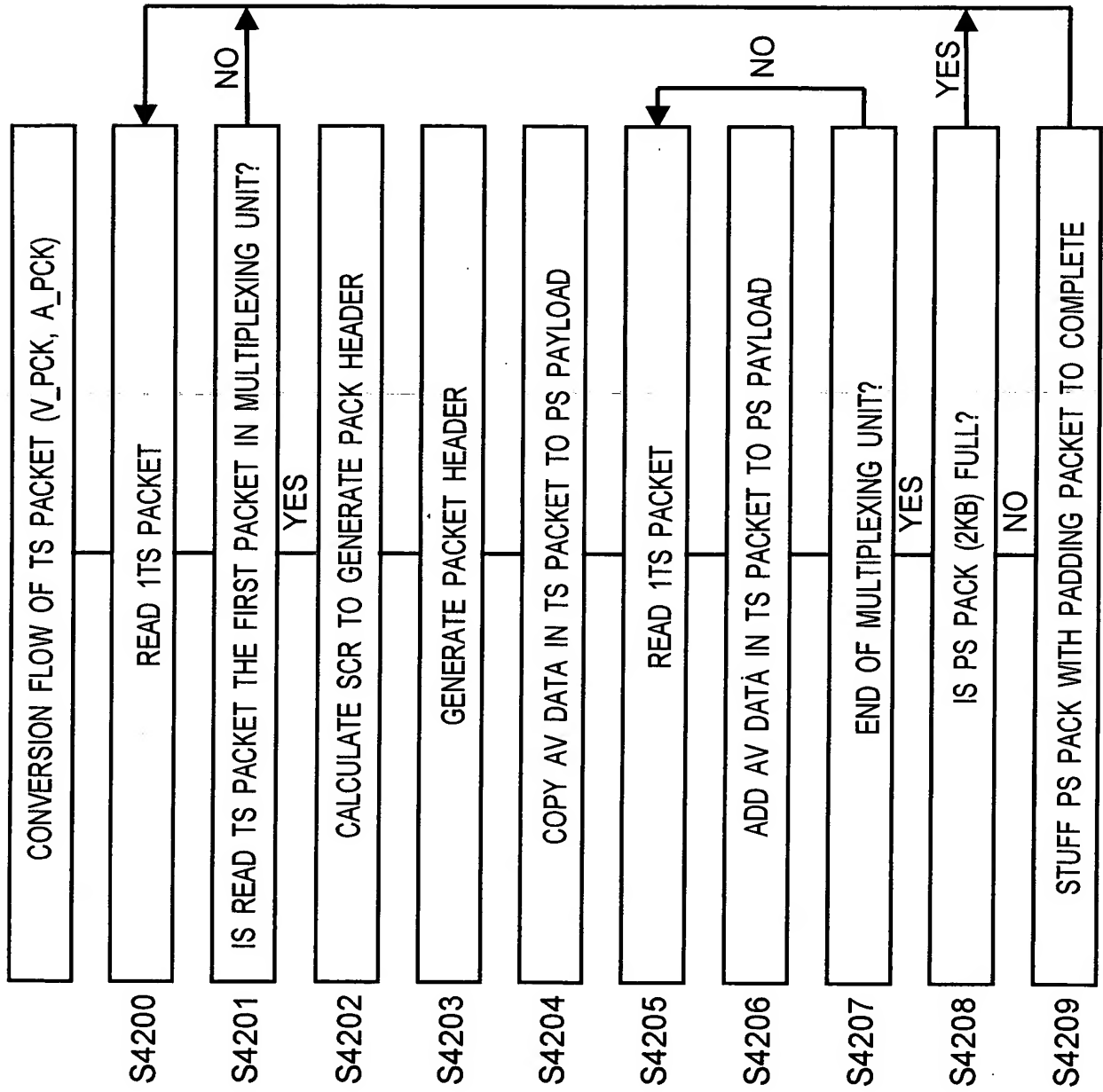


Fig. 60

PACK HEADER OF PACK IN MPEG2-PS		
Field	Number of bits	Permitted value
Pack_start_code	32	000001BAh
'01'	2	01b
SCR_base[32..30]	3	
marker_bit	1	1b
SCR_base[29..15]	15	
marker_bit	1	1b
SCR_base[14..0]	15	
marker_bit	1	1b
SCR_extension	9	
marker_bit	1	1b
program_mux_rate	22	6270h
marker_bit	1	1b
marker_bit	1	1b
reserved	5	11111b
pack_stuffing_length	3	000b

Fig. 61

SYSTEM HEADER OF DVD FORMAT		
FIELD	NUMBER OF BITS	PERMITTED VALUE
system_header_start_code	32	000001BBh
header_length	16	18
marker_bit	1	1b
rate_bound	22	6270h
marker_bit	1	1b
audio_bound	6	0 to 2
fixed_flag	1	0b
CSPS_flag	1	Provider defined
system_audio_lock_flag	1	1b
system_video_lock_flag	1	1b
marker_bit	1	1b
video_bound	5	1
Packet_rate_restriction_flag	1	Provider defined
reserved_bits	7	7Fh
stream_id	8	B9h (all video streams)
'11'	2	11b
P-STD_buf_bound_scale	1	1b
P-STD_buf_size_bound	13	232
stream_id	8	B8h (all audio streams)
'11'	2	11b
P-STD_buf_bound_scale	1	0
P-STD_buf_size_bound	13	32
stream_id	8	BDh (private_stream_1)
'11'	2	11b
P-STD_buf_bound_scale	1	1b
P-STD_buf_size_bound	13	58
stream_id	8	BFh (private_stream_2)
'11'	2	11b
P-STD_buf_bound_scale	1	1b
P-STD_buf_size_bound	13	2

Fig. 62A

PACKET HEADER OF RDI_PCK		
FIELD	NUMBER OF BITS	PERMITTED VALUE
packet_strat_code_prefix	24	000001h
stream_id	8	BFh (private_stream_2)
PES_packet_legnth	16	07D4h

Fig. 62B

PRIVATE HEADER OF RDI_PCK		
FIELD	NUMBER OF BITS	PERMITTED VALUE
sub_stream_id	8	50h

Fig. 63

PACKET HEADER OF PACKET IN MPEG2-PS		
Field	Number of bits	Permitted value
PES_priority	1	0b
data_alignment_indicator	1	0b
copyright	1	0b
ESCR_flag	1	0b
ES_rate_flag	1	0b
DSM_trick_mode_flag	1	0b
additional_copy_info_flag	1	0b
PES_CRC_flag	1	0b
PES_extension_flag	1	same value as Constrained SEF
PES_header_data_length	8	same value as Constrained SEF
PES_private_data_flag	1	0b, if exists
pack_header_field_flag	1	0b, if exists
Program_packet_sequence_ counter_flag	1	0b, if exists
P-STD_buffer_flag	1	1b, if exists
PES_extension_flag_2	1	0b, if exists
stuffing_byte	8*N	stuffed fully with '0 x FF'

Fig. 64

PRIVATE HEADER OF AC-3 IN DVD FORMAT		
FIELD	NUMBER OF BITS	PERMITTED VALUE
sub_stream_id	8	80h(primary) or 81h(secondary)
number_of_frame_headers	8	Provider defined
first_access_unit_pointer	16	0

Fig. 65A

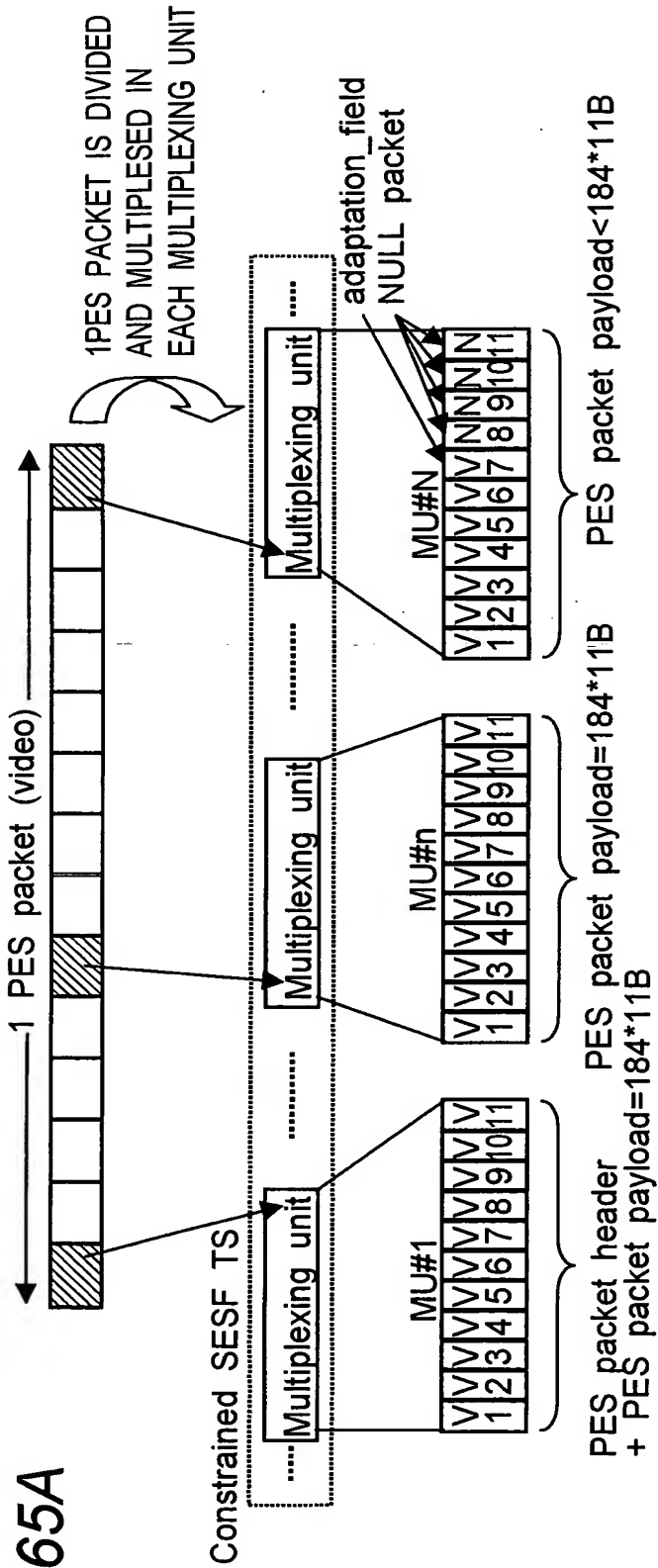


Fig. 65B

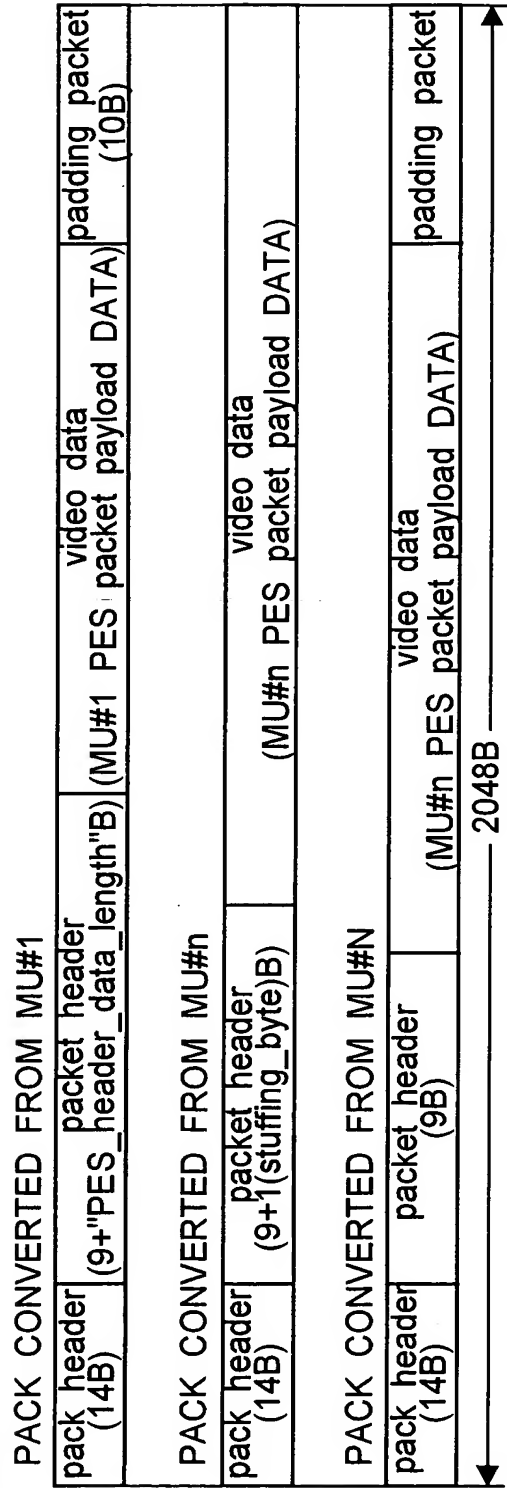


Fig. 66A

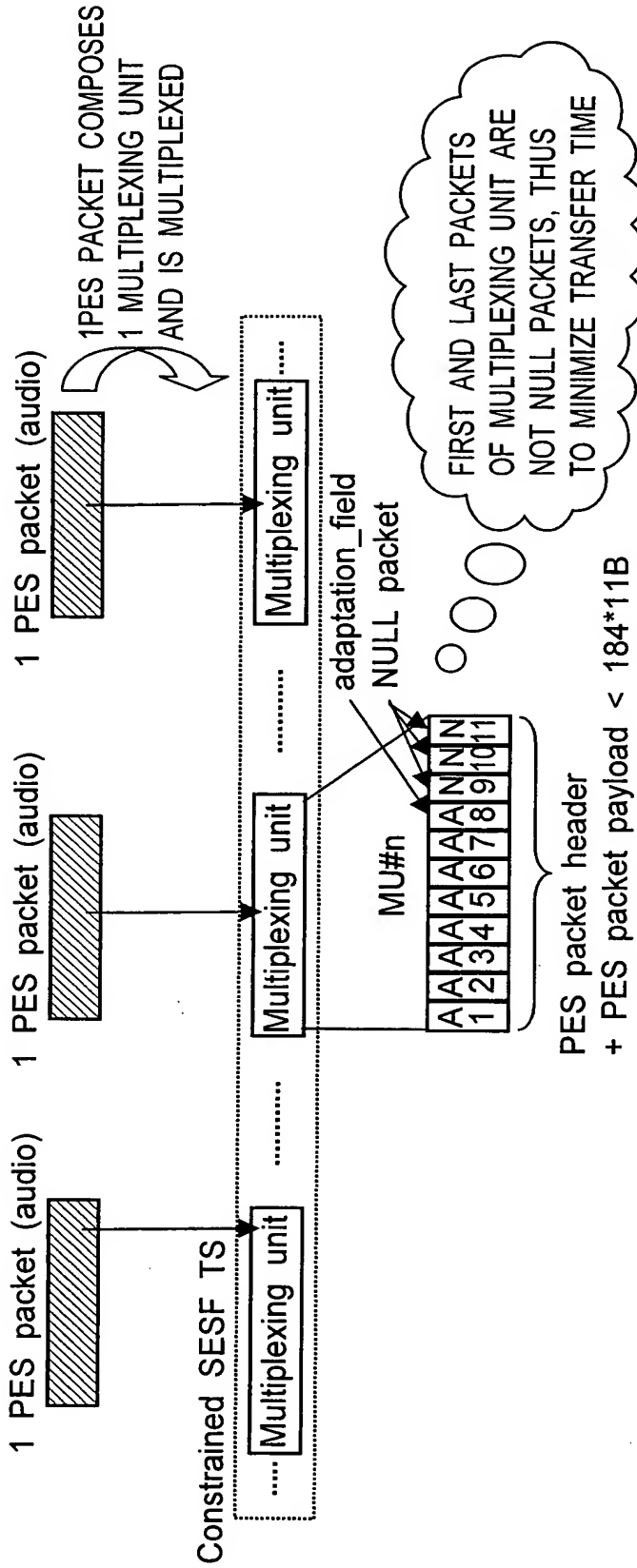


Fig. 66B

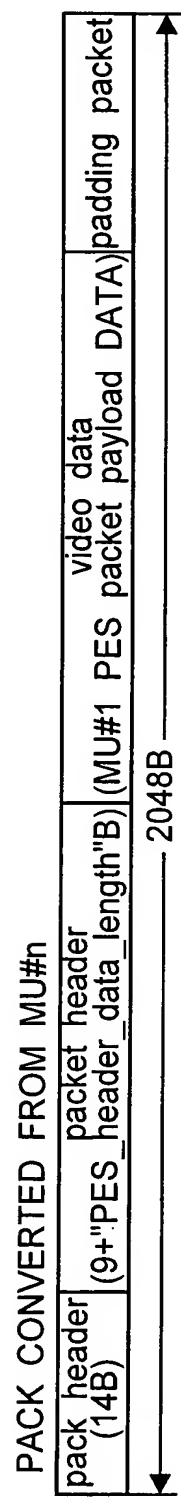


Fig. 67

BIT RATE ALLOWED IN Constrained SESF	MAXIMUM BYTE LENGTH OF PES PACKET PAYLOAD (AC-3 audio)	MAXIMUM BYTE LENGTH OF PES PACKET PAYLOAD (MPEG1-audio)
64 Kbps	1792	1920
80 Kbps	1920	1920
96 Kbps	1920	1728
112 Kbps	1792	1680
128 Kbps	1536	1920
160 Kbps	1920	1920
192 Kbps	1536	1728
224 Kbps	1792	1344
256 Kbps	1024	1536
320 Kbps	1280	1920
384 Kbps	1536	1152
448 Kbps	1792	N/A

Fig. 68

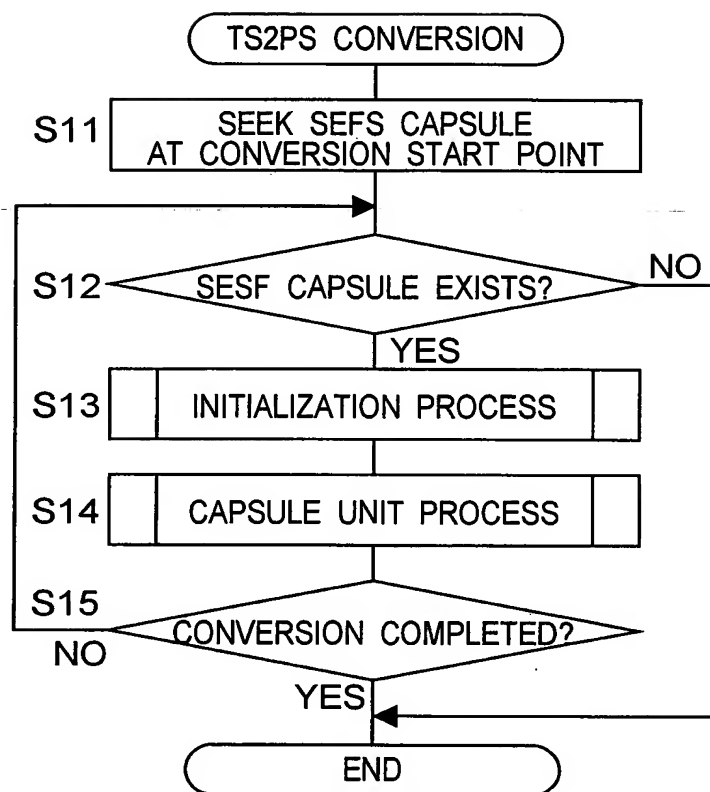


Fig. 69

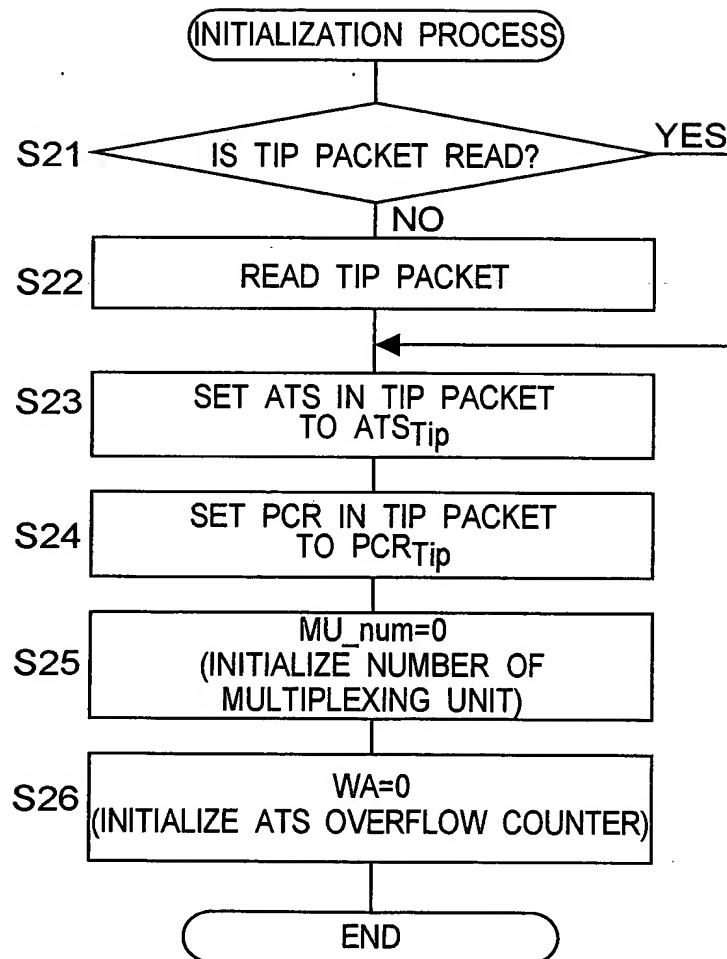


Fig. 70

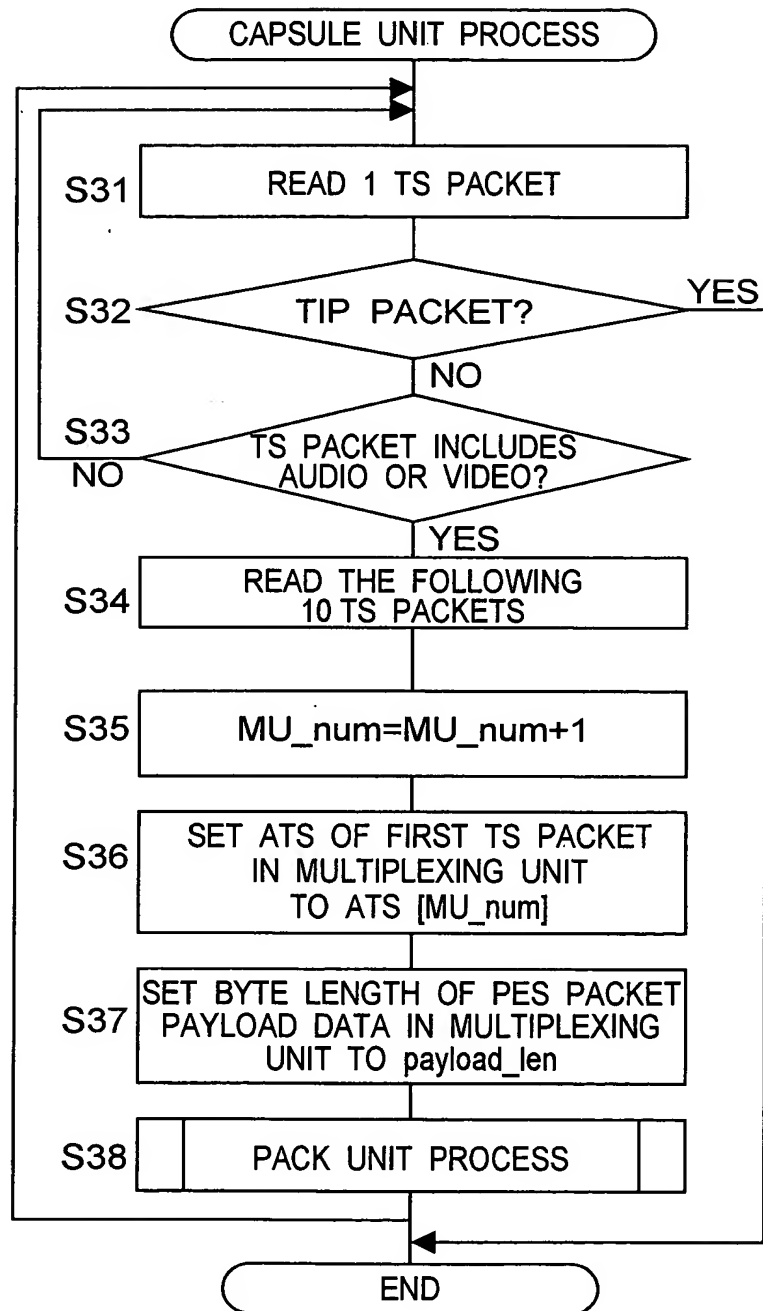


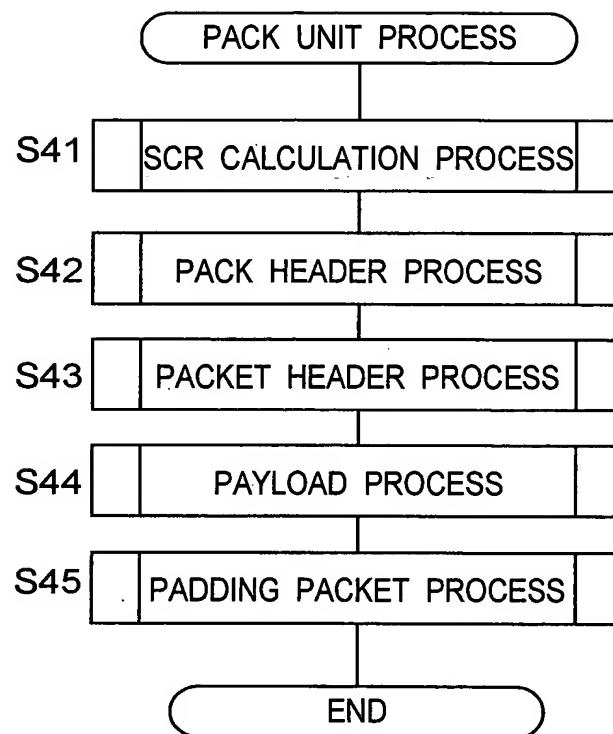
Fig. 71

Fig. 72

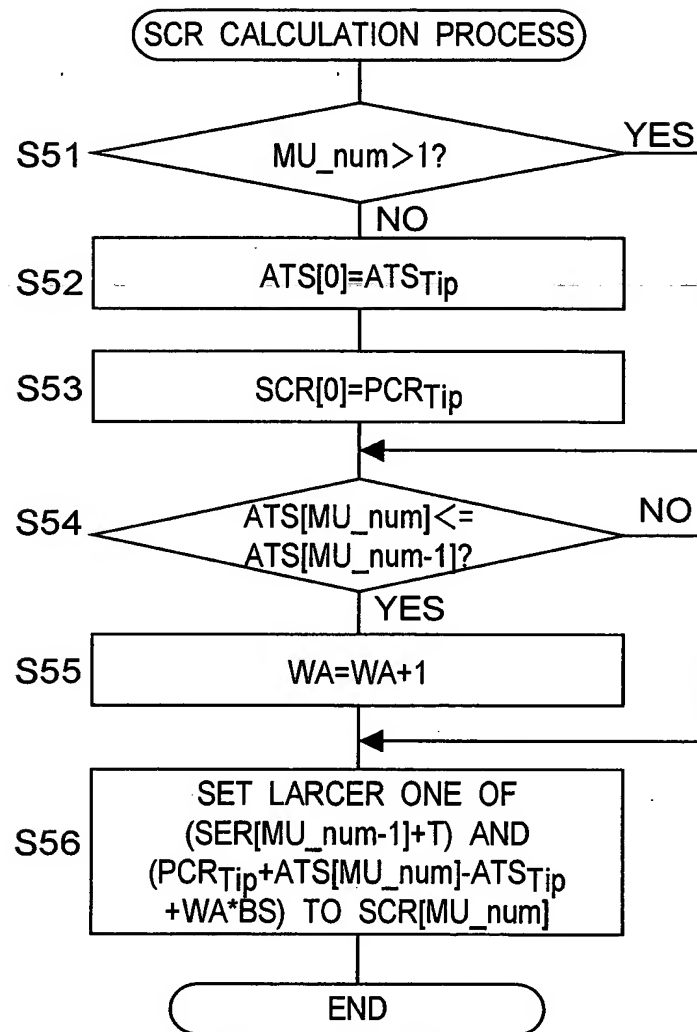


Fig. 73

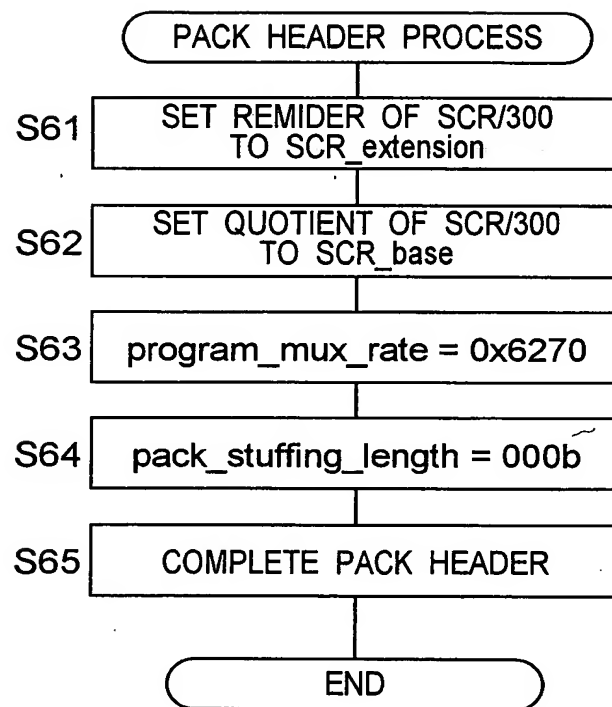


Fig. 74

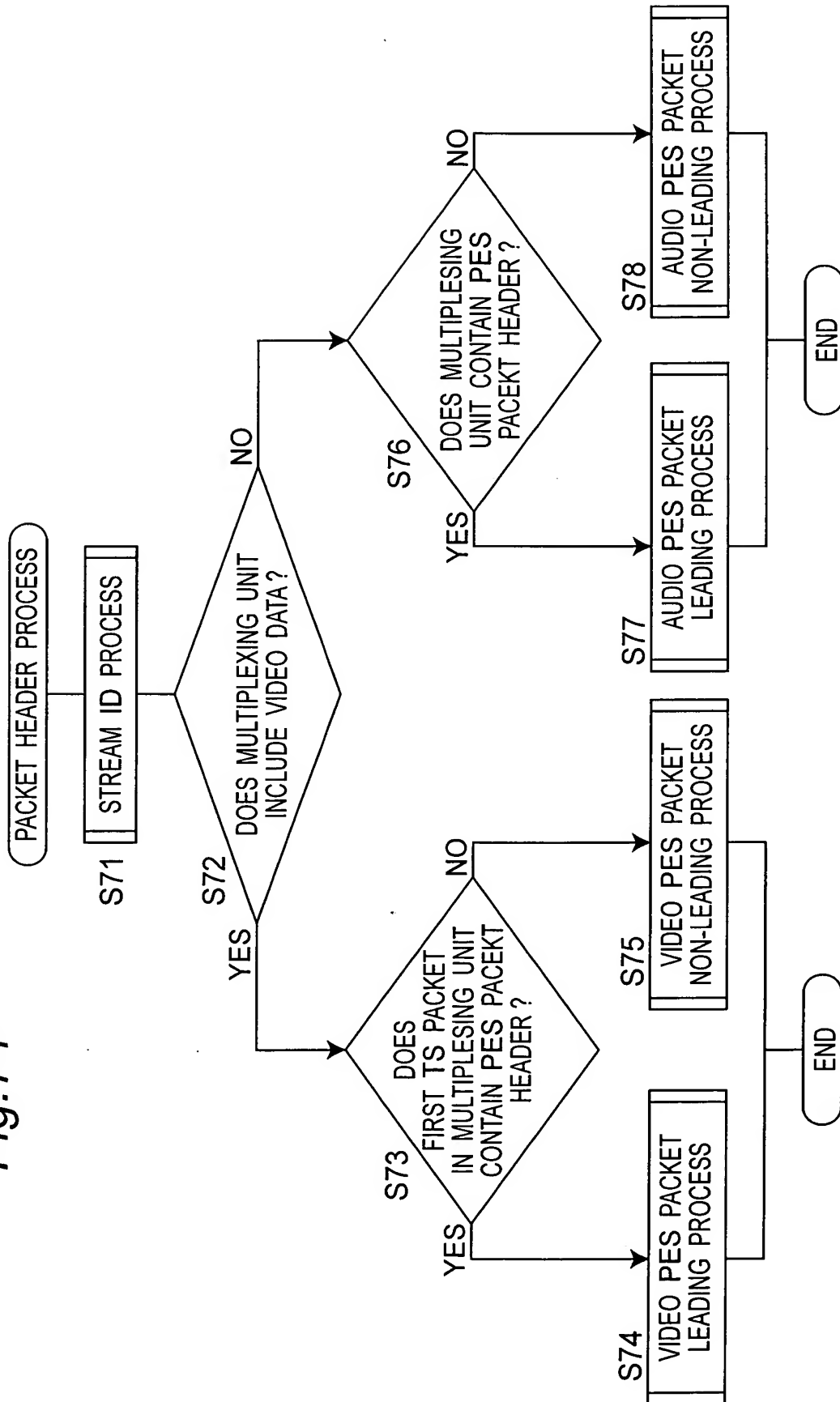


Fig.75

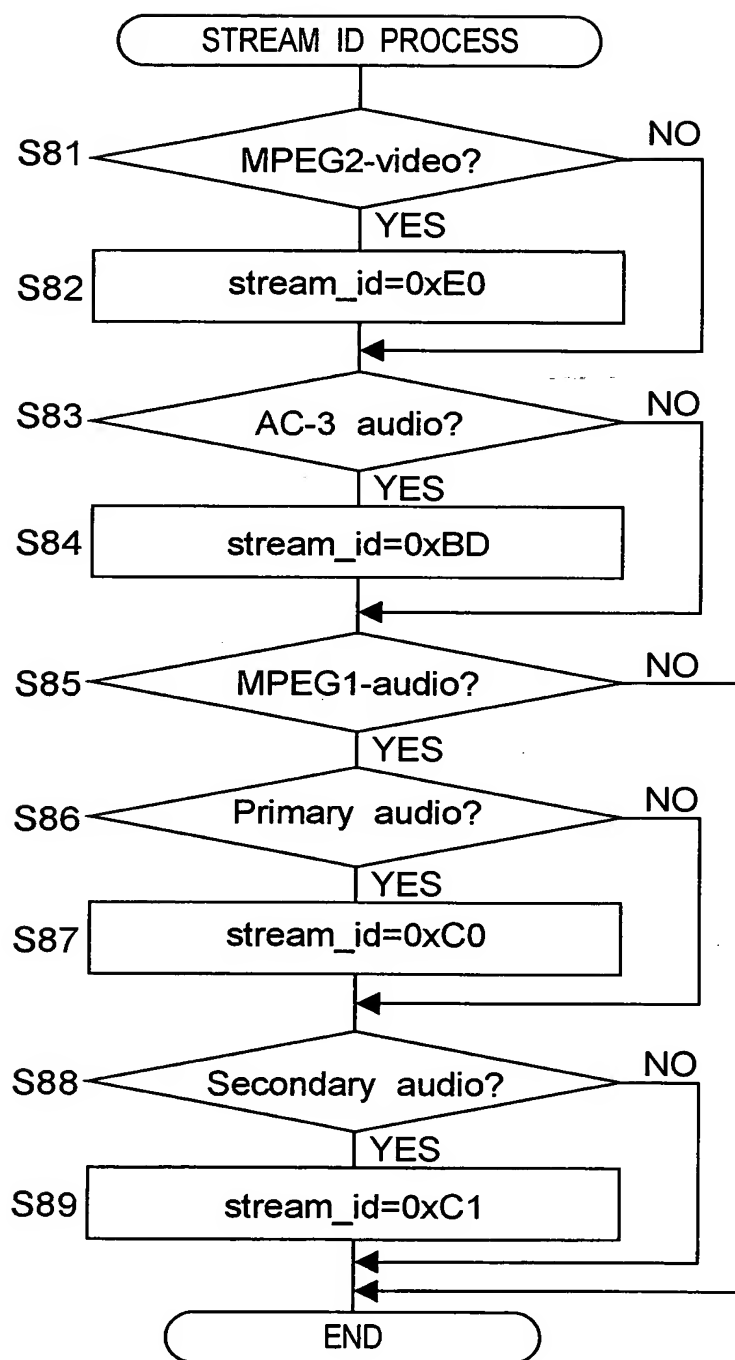


Fig. 76A

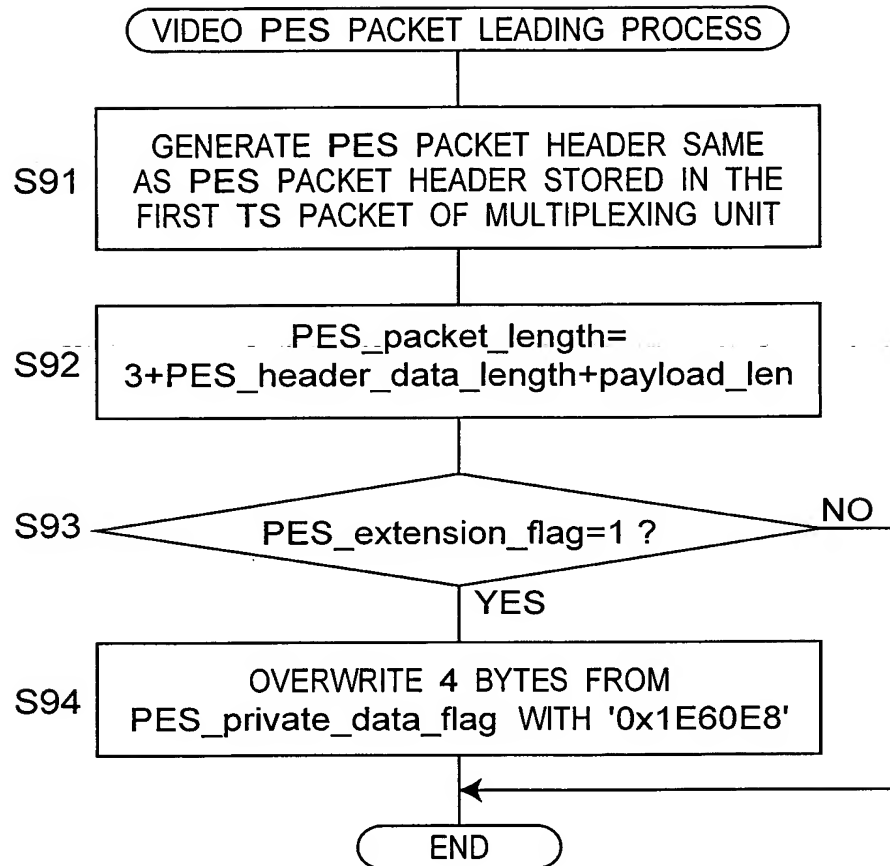


Fig. 76B

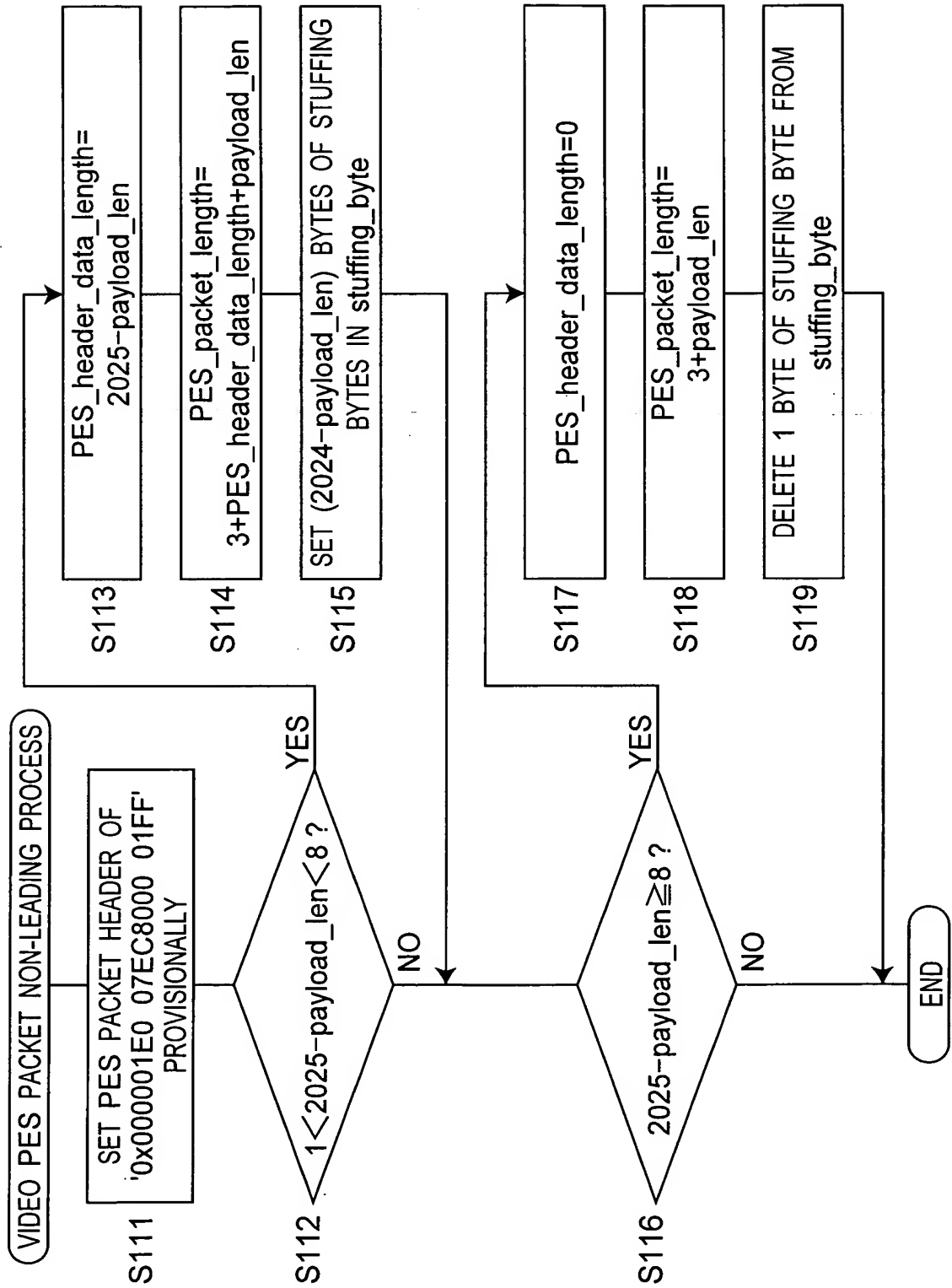


Fig. 77A

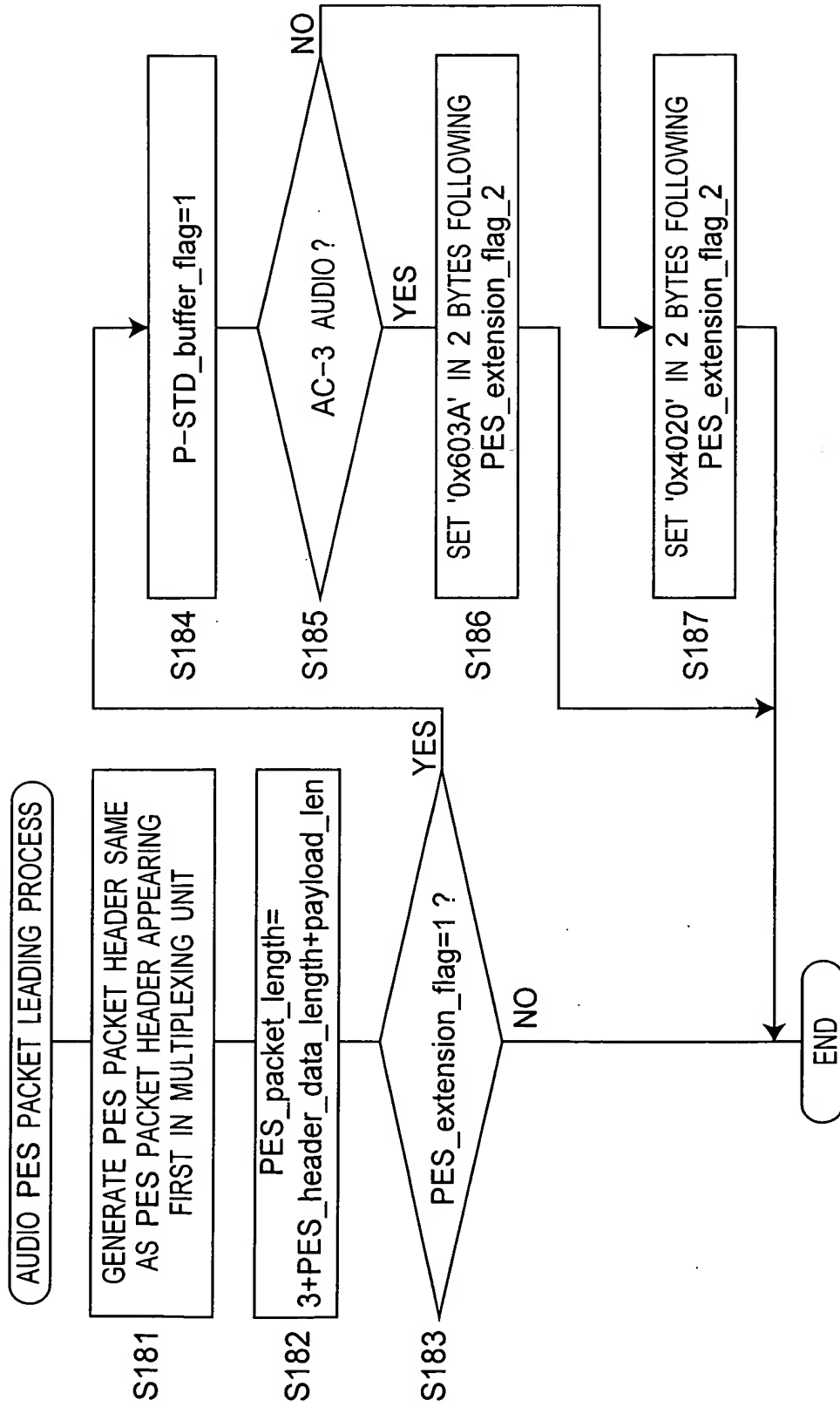


Fig. 77B

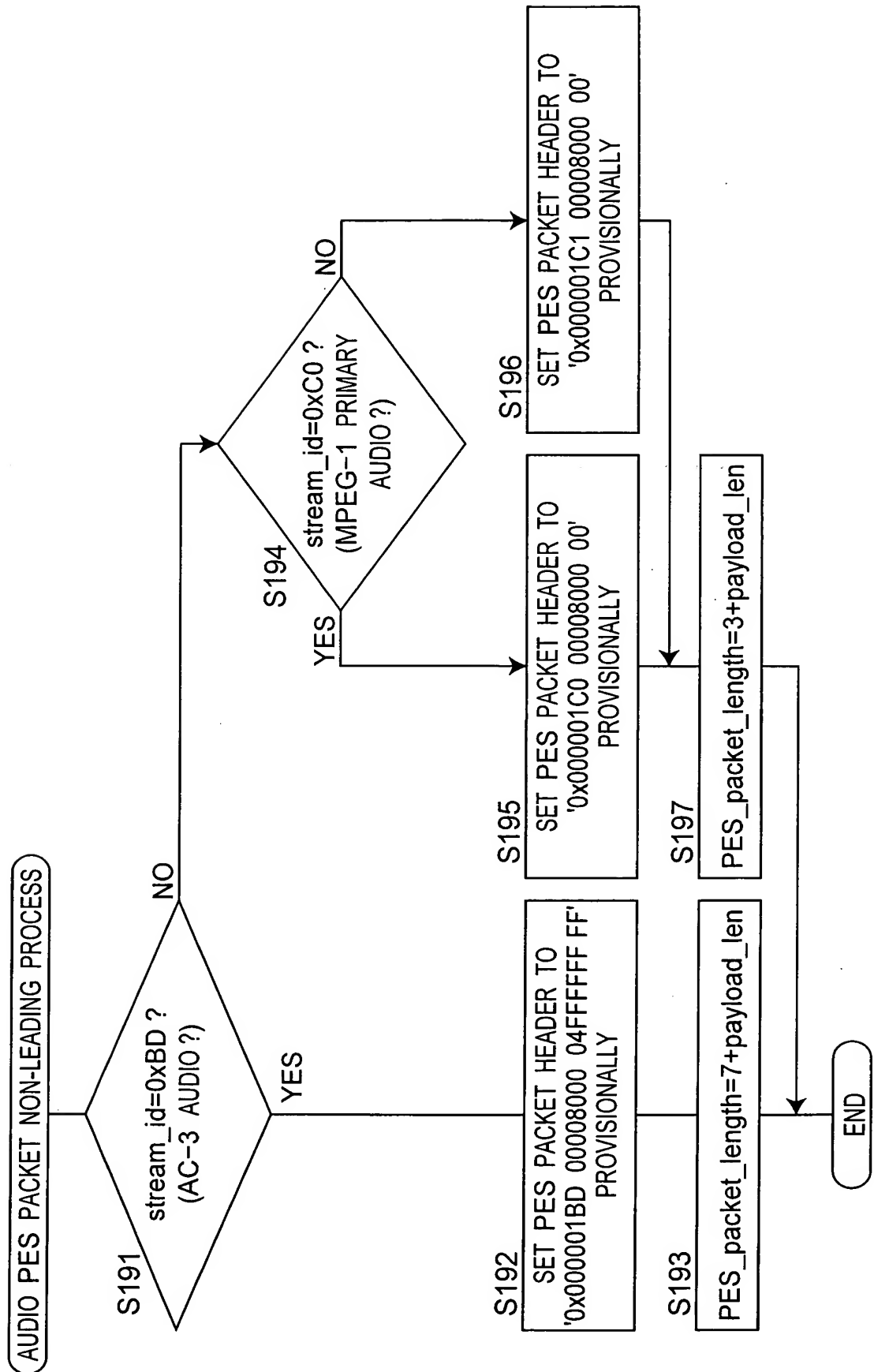


Fig. 78

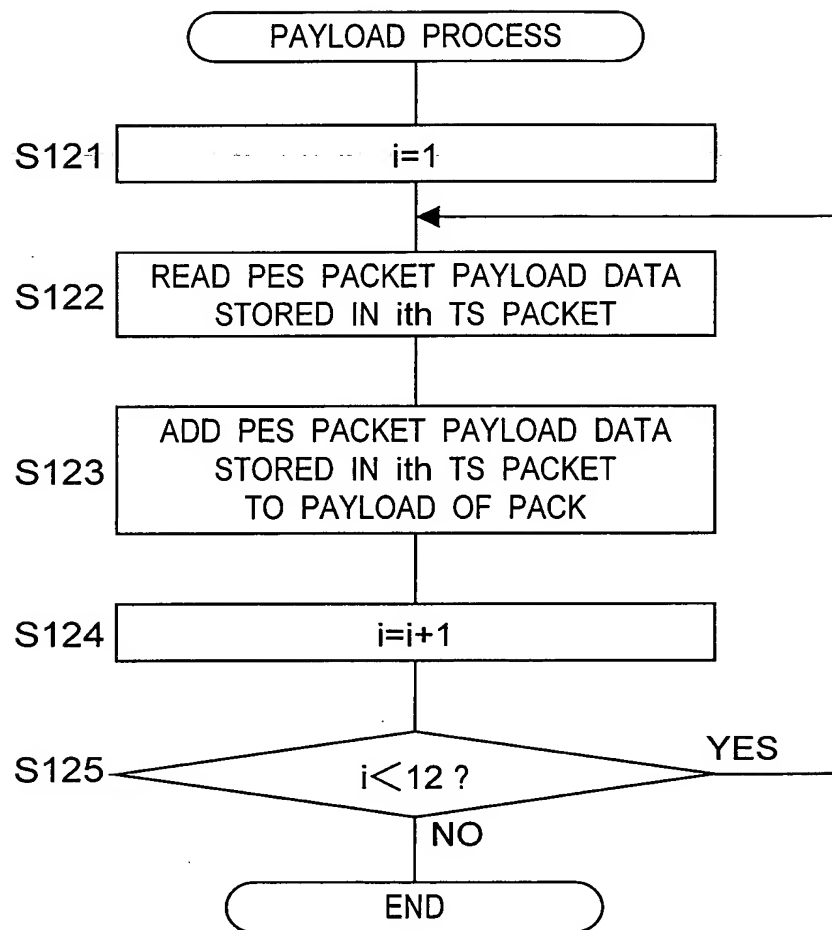


Fig.79

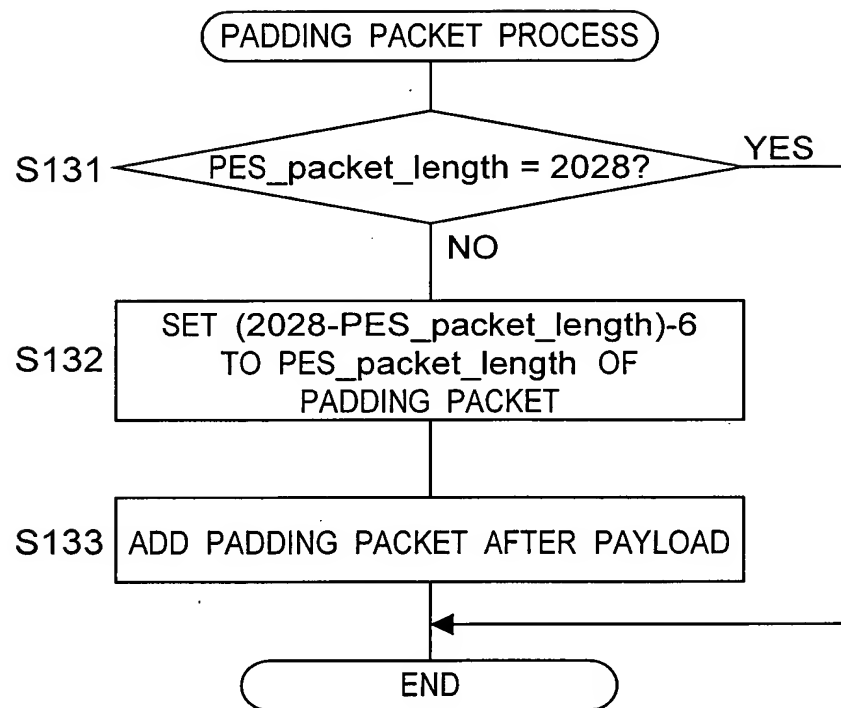


Fig. 80

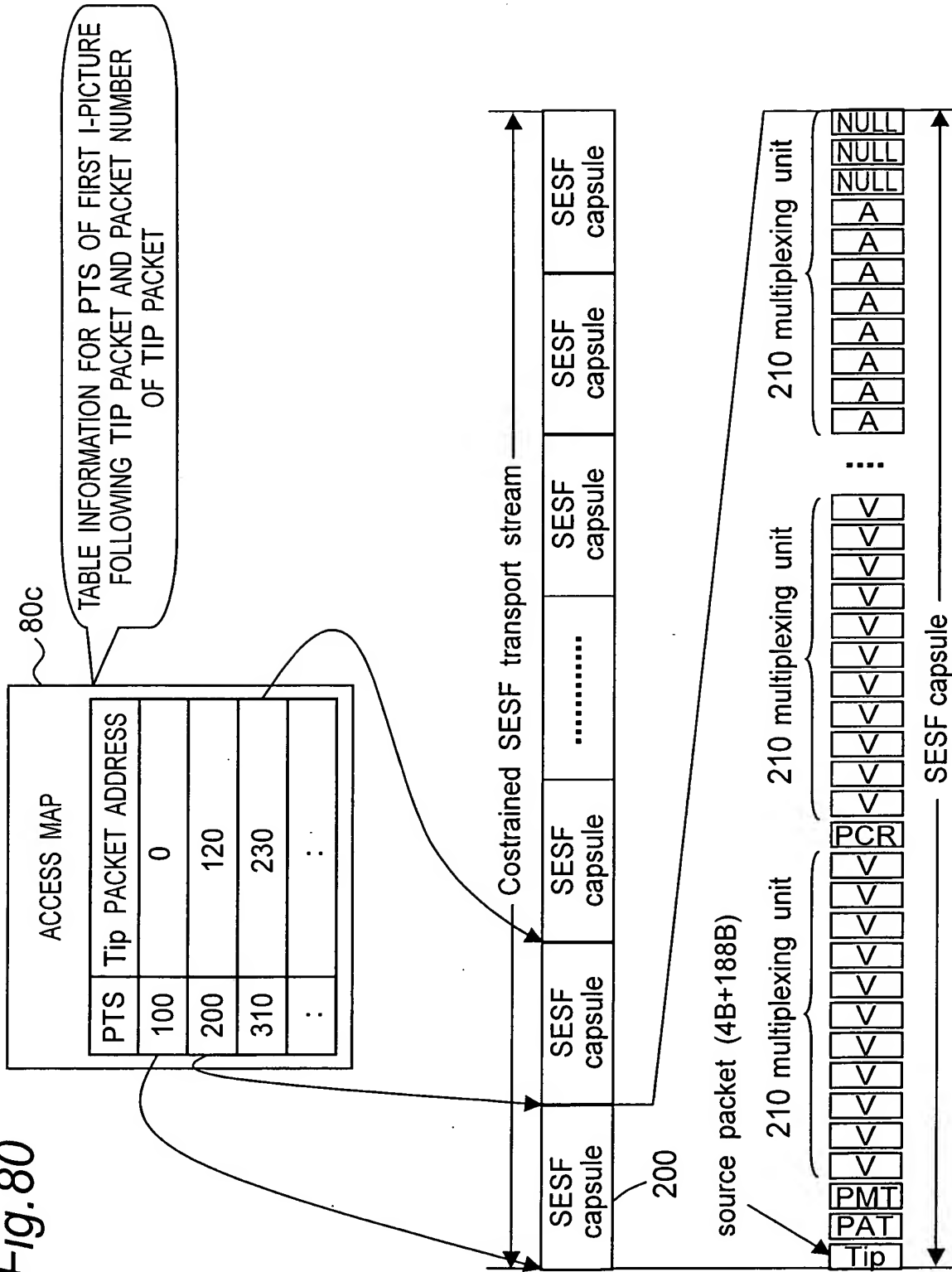


Fig.81

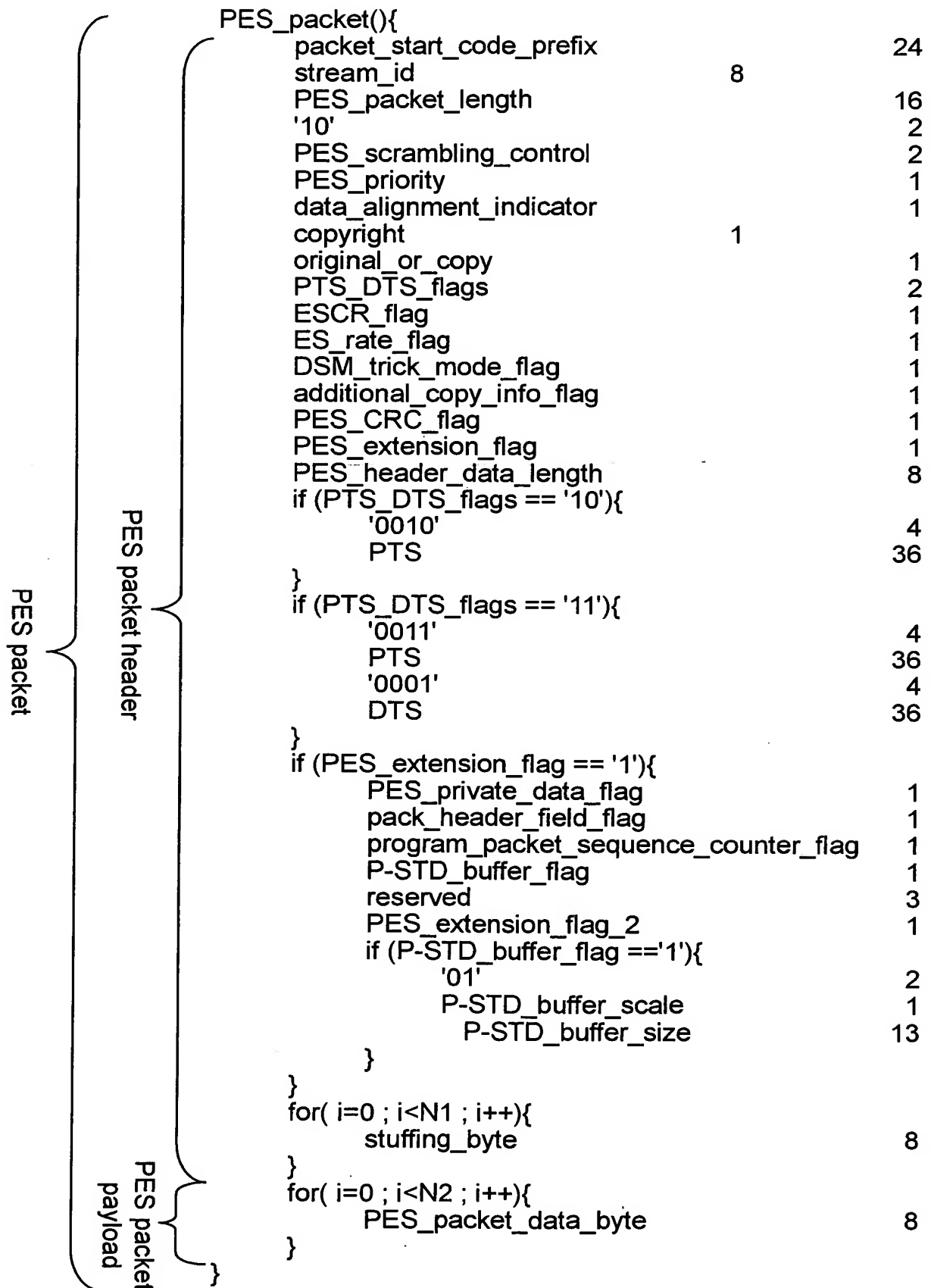


Fig.82

CALCULATION OF INTERNAL DATA OF NV_PCK		
FIELD	CALCULATION METHOD	
Pack header	SC	
PCI data	NV_PCK_LBN	CALCULATE FROM ATS AND PCR OF Tip PACKET, AND ATS OF A HEAD Tip PACKET IN Multiplexing unit.
	VOBU_S_PTM	COUNT PACKS CONVERTED IN THE CONVERSION.
	VOBU_S_PTM	CALCULATE FROM FVFPST OF Tip PACKET.
	VOBU_E_PTM	CALCULATE FROM FVFPST OF NEXT Tip PACKET. ONLY FOR THE LAST NV_PCK, THE VALUE IS EQUAL TO VOB_V_E_PTM.
	VOBU_SE_E_PTM	EXCEPT FOR THE LAST NV_PCK, 0x00 IS FILLED. FOR THE LAST NV_PCK, THE VALUE IS EQUAL TO VOB_V_E_PTM.
DSI data	C_ELTm	CALCULATE FROM VOB_U_S_PTM OF A HEAD VOB IN CELL AND VOB_U_S_PTM OF THE VOB
	NV_PCK_SCR	ASSIGN SCR OF NV_PCK TO THIS FILED
	NV_PCK_LBN	SAME TO PCI data
	VOBU_EA	COUNT DURING TS2PS TO ASSIGN, OR CALCULATION FROM ACCESS MAP
	VOBU_1STREF_EA	COUNT PACKS UNTIL THE LAST PACK OF THE FIRST PES PACKET AFTER TS2PS CONVERSION OF WHICH picture_coding_type IS 01b OR 10b OF Tip PACKET, AND ASSIGN THE COUNT TO THIS FIELD.
	VOBU_2NDREF_EA	COUNT PACKS UNTIL THE LAST PACK OF SECOND PES PACKET AFTER TS2PS CONVERSION OF WHICH picture_coding_type IS 01b OR 10b OF Tip PACKET TO SUBSTITUTE.
	VOBU_3RDREF_EA	COUNT PACKS UNTIL THE LAST PACK OF THIRD PES PACKET AFTER TS2PS CONVERSION OF WHICH picture_coding_type IS 01b OR 10b OF Tip PACKET TO SUBSTITUTE.
	VOBU_C_IDN	ASSIGN THE NUMBER OF CELL TO WHICH THE CORRESPONDING NV_PCK IS BELONG (DESIGNATED BY RECORDER/USER)
	C_ELTm	SAME TO PCI data
	VOB_V_S_PTM	ASSIGN VOB_U_S_PTM OF THE FIRST VOB.
	VOB_V_E_PTM	ASSIGN REPRODUCTION END TIME OF CONVERSION SECTION (IT MAY BE OBTAINED BEFORE TS2PS CONVERSION)
	VOBU_SRI	INFORMATION IS EXTRACTED WITH A SET OF NV_PCK_LBN AND VOB_U_S_PTM ON TS2PS CONVERSION AND THEN ASSIGNED IT TO THIS FIELD. ALTERNATELY, A VALUE CALCULATED FROM ACCESS MAP.
	A_SYNCA	COMPARING VOB_U_S_PTM OF NV_PCK WITH AUDIO PTS, THE NUMBER OF PACKS COUNTED TO ONE PACK BEFORE THE PACK AUDIO PTS IS GREATER THAN VOB_U_S_PTM AT THE FIRST TIME IS ASSIGNED TO THIS FIELD.

Fig. 83A

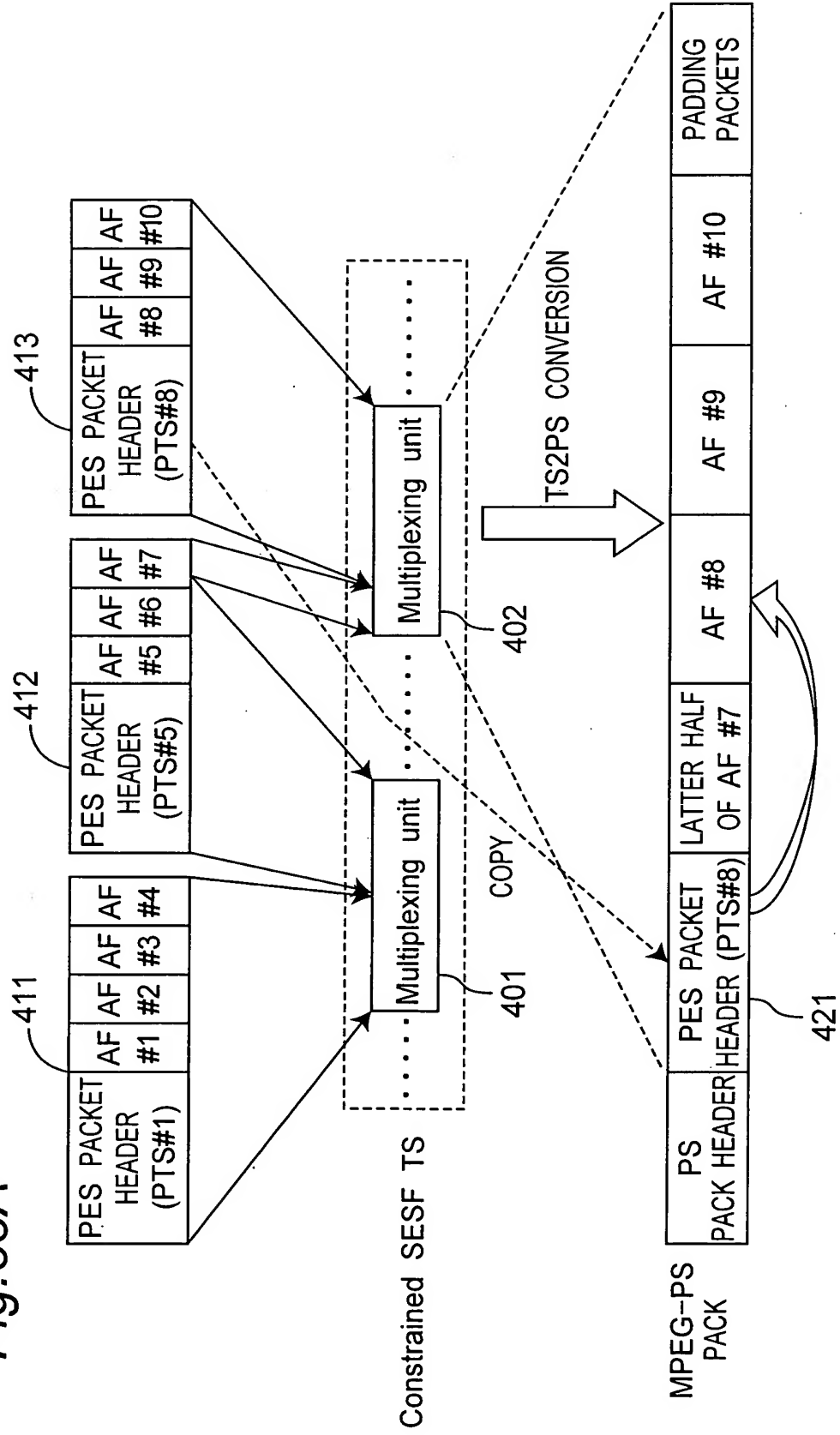
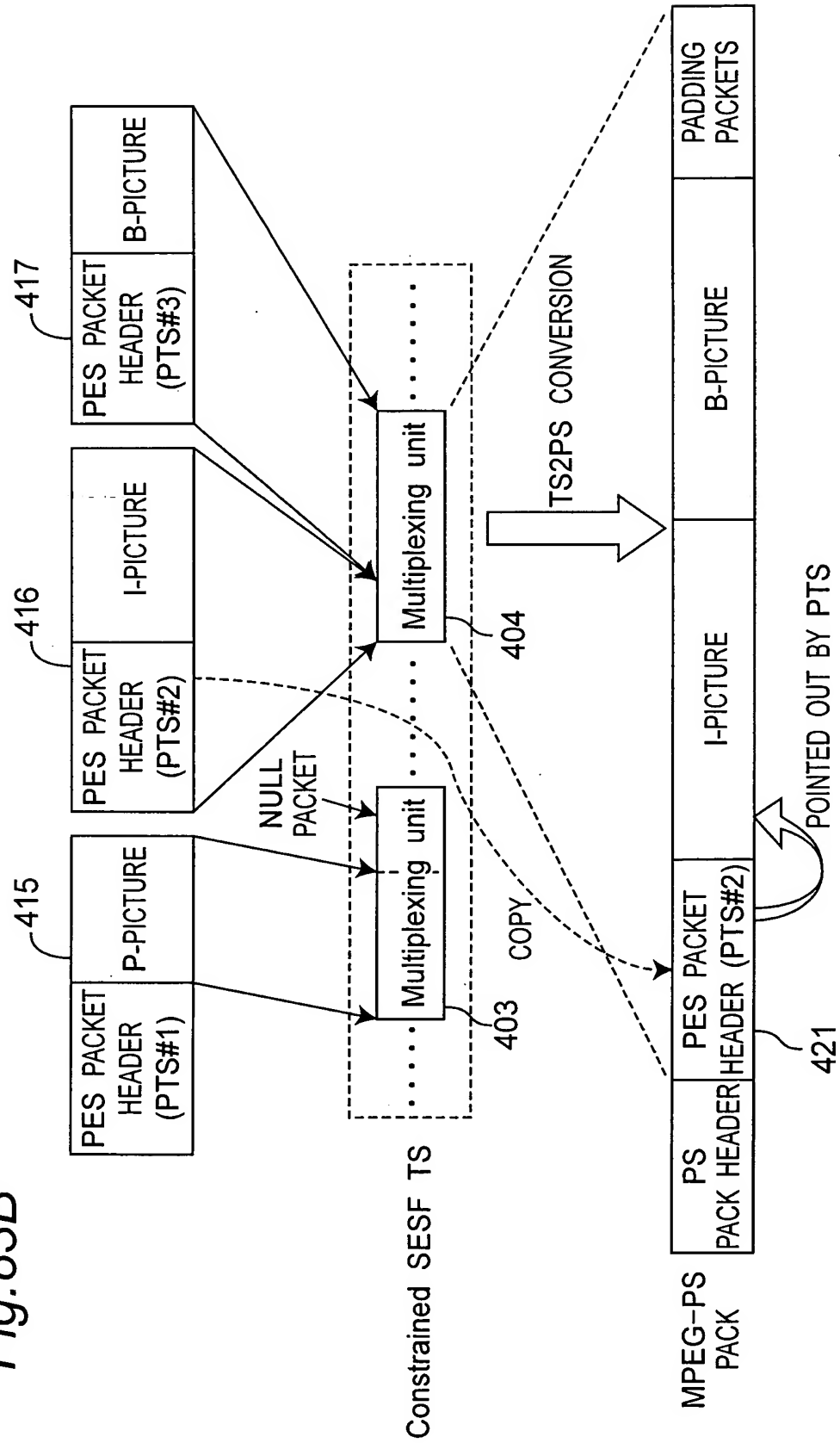
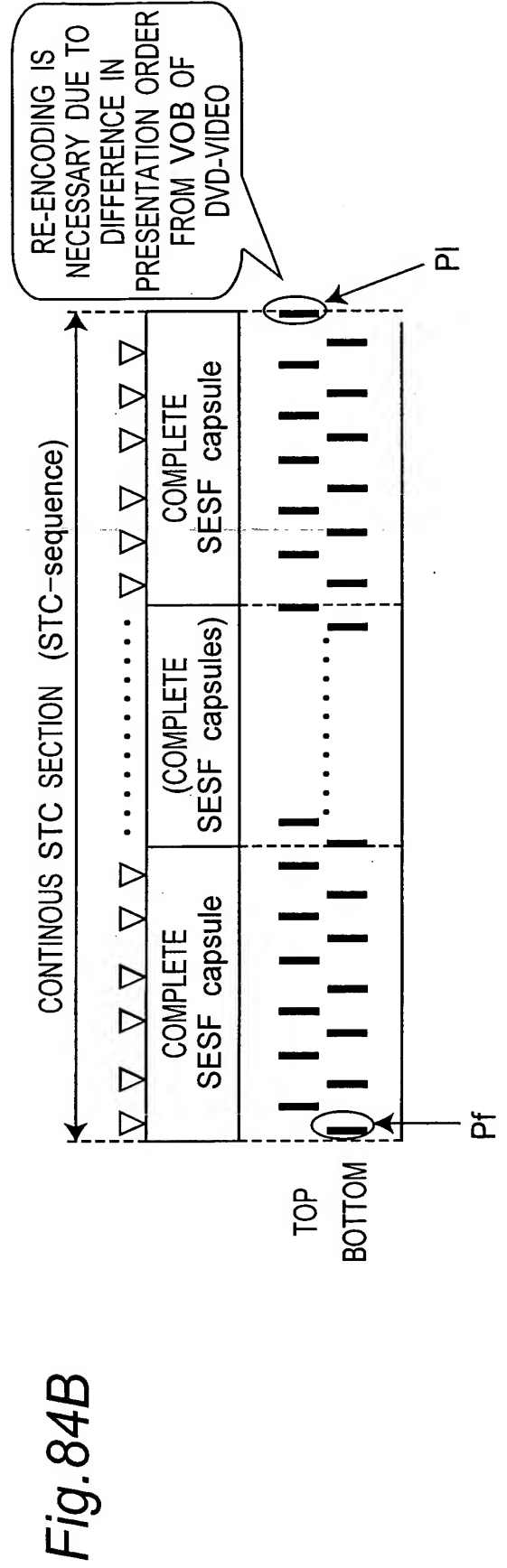
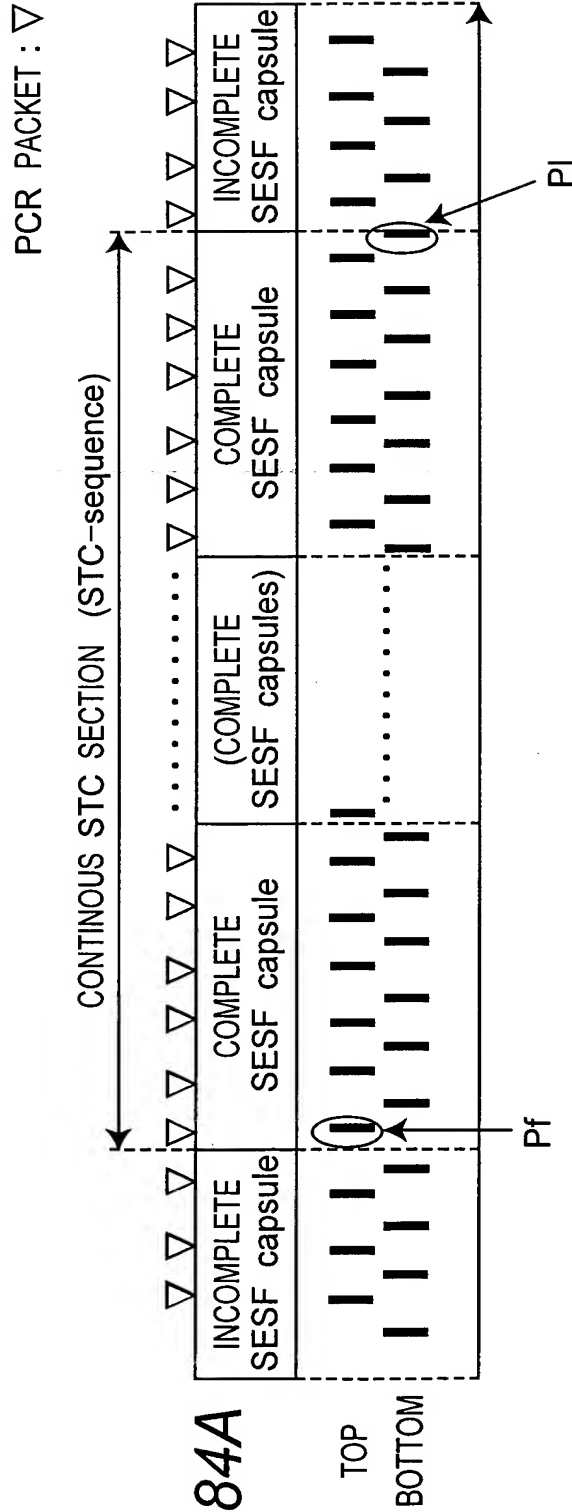


Fig. 83B





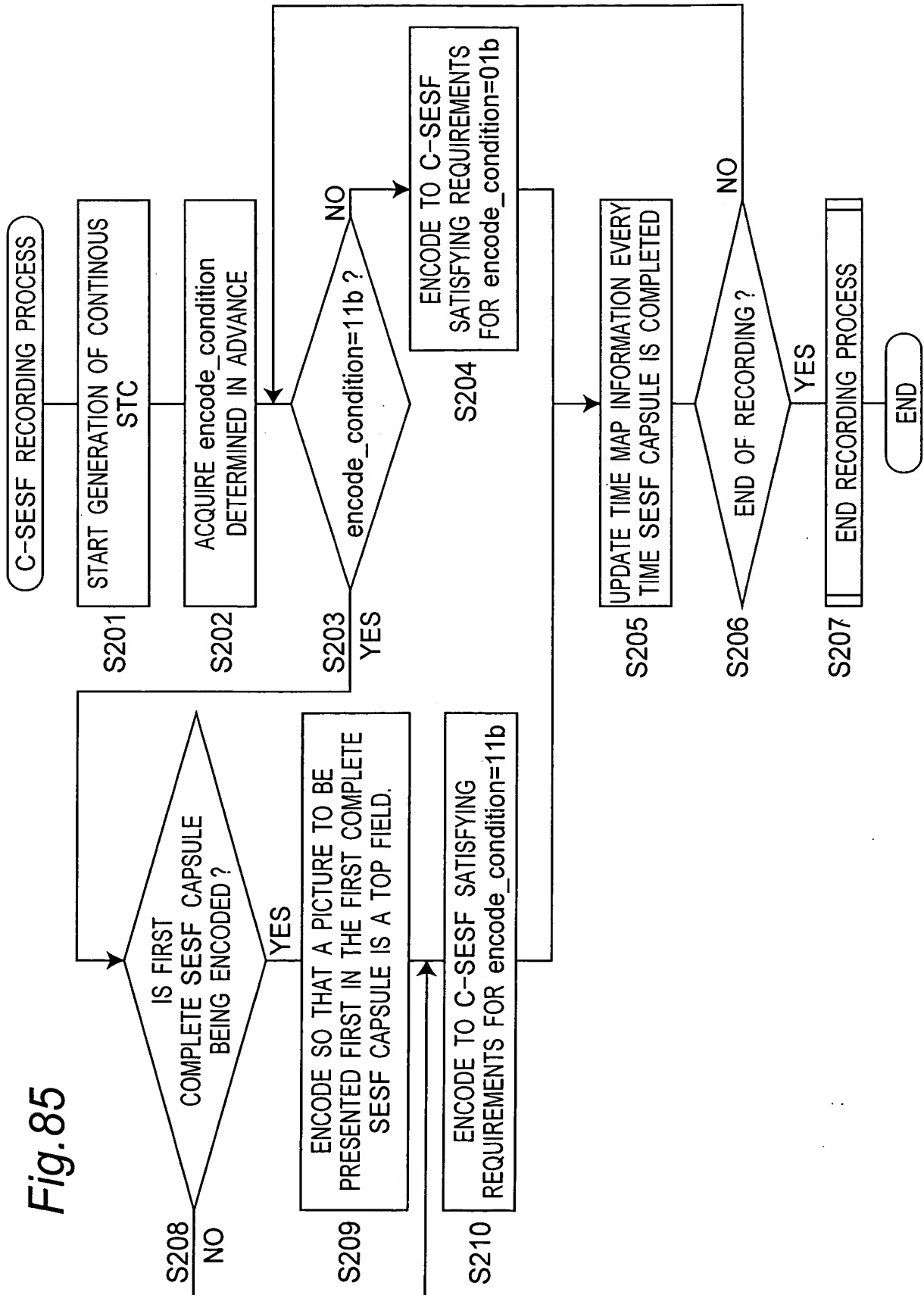


Fig. 86

